

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Burton W. Hancock

3. ADDRESS OF OPERATOR

1799 Hamilton Ave., San Jose, CA

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1094 FNL, 1267 FWL, Section 3 NW/NW

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20 miles northwest of Mack, Colorado

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1094'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

5850'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682 GL, 5693 KB

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" new	24# H-40STC	300'	175 sacks Class "G" (to surface)
7-7/8"	4-1/2" new	10.5# J-55LTC	4400'	175 sacks RFC

1. Surface formation is the Mancos.
 2. Anticipated geologic markers are: Frontier 3390'; Dakota 3793'; Morrison 4000'; Salt Wash 4295'.
 3. Gas is anticipated in the Dakota, Morrison and in the Salt Wash. No oil or other minerals are anticipated. No water sands are expected.
 4. Proposed casing program: See Item No. 23 above.
 5. Pressure control equipment: See attached well control plan and schematic of drilling contractor's BOP stack. BOP's will be tested before drilling out from under surface casing and checked daily.
 6. Air or mist drilling will be used to drill the surface hole unless water is encountered. If water is encountered, chemical-gel type mud will be used. The well will be air drilled from under surface casing to total depth.
 7. Auxiliary equipment: See well control plan.
- (continued on page 2)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James D. Barton

TITLE

Consulting

Petroleum Engineer

DATE

July 9, 1985

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE

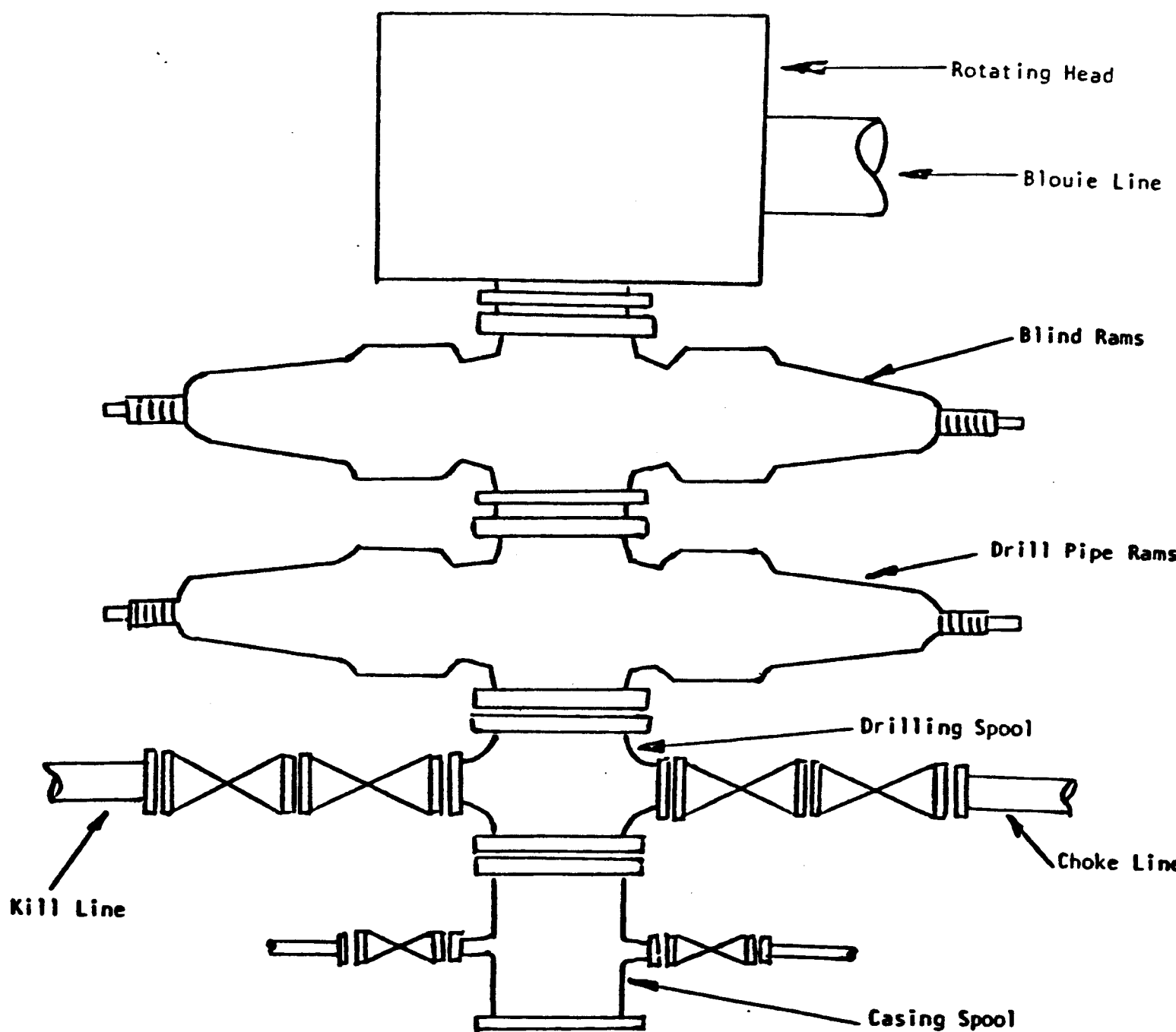
BY: John R. Bays

WELL SPACING: Unit Well A3

*See Instructions On Reverse Side

Air drilled wells using 900 series wellhead equipment.

Interval from 300' to total depth.



SURFACE USE PROGRAM

Burton W. Hancock
Federal Well#3-4
NW¼NW¼ Sec.3-T17S-R25E, S.L.B.&M.
GRAND COUNTY, UTAH

1. Existing Roads

See Vicinity and Topo-Access Maps. This proposed well is in the bottom of Bitter Creek Canyon about 3½ miles south of the Arco-San Arroyo Gas Plant. This well is reached by going 9.5 miles west of Mack, Colorado on Old Highway 6&50 to Mesa County 2 road, then turn right and go 3.9 miles to the Colorado-Utah State line (fence); then go northwesternly 8.4 miles on the main Bittercreek San Arroyo Gas Plant road to the location.

All roads used for access are county roads. Burton W. Hancock will help maintain the gravel and dirt portions of these roads in conjunction with the county and other oil and gas operators in the area.

2. Access Roads to be Constructed

The 100' of new access road will be incorporated into the south-east edge of the location. The road will ramp over the northwest Pipeline Corporation pipeline.

3. Location of Existing Wells

See Map No. 3. There are 6 producing wells and 2 shut-in wells within 1 mile of Federal No.3-4.

4. Location of Existing and/or Proposed Facilities if Well is Productive

(a) On Well Pad - See Plat No.4. All Facilities will be painted dark green to blend with the environment.

(b) Off Well Pad - See Facilities Map

5. Location and Type of Water Supply

The water source for this well is West Salt Creek. The pickup point is on Old Highway 6&50 approximately 2.5 miles west of Mack, Colorado.

6. Source of Construction Materials

No construction materials will be used other than native materials. Soil from cuts will be used in fills. No outside material will be brought in.

Application for Permit to Drill, Deepen, or Plug Back

3-4

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 3-T17S-R25E

Grand County, Utah

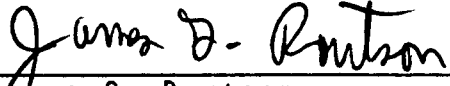
Lease U-05079

Page 2

8. The logging program will consist of a DIL log from TD to base of surface casing, and GR-FDC-CNL logs from TD to above the Frontier. No cores or DST's are planned.
9. No abnormal pressures or temperatures are anticipated. No poisonous gas is anticipated.
10. Anticipated spud date is September 3, 1985. Completion operations should commence within 30 days of rig release.
11. Survey plats are attached.
12. The gas is dedicated to Northwest Pipeline Corporation.
13. The well is being drilled as a Wintercamp Unit development well.
14. Burton W. Hancock is the Operator of the Wintercamp Unit.
15. Hancock is bonded in the State of Utah.

Burton W. Hancock
Federal No. 3-4
WELL CONTROL PLAN

1. Surface Casing: 8-5/8" O.D., 24#/ft., Grade H-40, ST&C, set at 300' or deeper, cemented with pump and plug method back to the surface or bottom of cellar.
2. Casinghead Flange: 8-5/8" x 8"-900 Series casinghead with two 2" 2000 psi L.P. outlets.
3. Intermediate Casing: None
4. Blowout Preventor: An 8" 3000 psig W.P. double gate hydraulic shaffer BOP (or equivalent) with drill rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi W.P. A Grant rotating head will be used while air and mist drilling. BOP's will be worked daily. Blind rams will be checked during trips. BOP's will be tested to 1000 psi prior to drilling shoe joint on surface casing.
5. Auxiliary Equipment: (a) Drill pipe floats will be allowed at contractor's discretion. (b) Visual monitoring of air returns will be maintained. (c) Upper kelly cock will be used. (d) Stabbing valve will be kept on floor.
6. Anticipated bottom hole pressure is less than 800 psi at 3793 or a gradient of .211 psi/ft or less. No abnormal temperatures or hydrogen sulfide gas are anticipated.


James G. Routson
Petroleum Engineer

7. Methods for Handling Waste Disposal

Cuttings will be buried in the reserve pit at clean up. Garbage and other waste material will be contained in a trash cage. This cage will be dumped at an approved sanitary land fill. Human waste will be disposed of in chemically treated sanitary pits.

Drilling fluids will be contained in the reserve pit and left to evaporate. Any fluids produced during testing operations will be collected in a test tank. If a test tank is not available, the fluids will be contained in the reserve pit. Any spills of oil, gas, salt water or noxious fluid will be cleaned up and removed.

If the well is productive, produced water will be disposed of on site for 30 days only, or 90 days with the permission of the District Manager. After that time, application will be made for approval of permanent disposal method in compliance with old MMS Order NTL-2B, and the rules and regulations of the State of Utah.

8. Ancillary Facilities:

No ancillary facilities are planned.

9. Wellsite Layout

See Plat #2 - Pit and Pad Layout

See Plat #2A - Cross Sections of Pit and Pad

See Plat #3 - Rig Layout

The location will be constructed large enough to accomodate the drilling rig and associated equipment with allowance made for future completion and fracturing equipment.

The location construction will begin by stripping and stockpiling all available (4-6") topsoil. The stockpile will be along the southside of the location.

The reserve pit will be constructed along the southside of the well pad. The pit will be fenced on three sides during drilling and closed on the fourth side at rig release. The fence will be maintained through completion and while the pit area is drying.

10. Plans for Reclamation of the Surface

If the well is productive, the reserve pit will be allowed to dry and then backfilled. All of the area not necessary for production will be resloped, covered with available topsoil and revegetated using a seed formula supplied by the BLM.

If the well is abandoned, the entire area of disturbance will be returned to a reasonable contour approximating the topography of the surrounding area. The topsoil will be distributed over the recontoured area and revegetated using the appropriate seed formula.

10. (continued)

Clean-up will begin after completion rig release and resloping should be completed by the Fall of 1985.

11. Surface Ownership

All lands involving new construction are Federal lands.

12. Other Information

The well site is on a small bench in the bottom of Bittercreek. The vegetation is sparse and includes juniper, sagebrush, western wheatgrass, Indian rice grass and a few annual plants.

13. Lessee's of Operator's Representatives and Certification

James G. Routson
Consulting Petroleum Engineer
P.O. Box 3394
Billings, Montana 59103
Office Phone: 406-245-5077
Home Phone: 406-245-8797

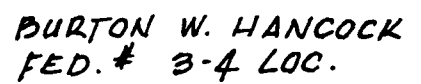
Burton W. Hancock
1799 Hamilton Avenue
San Jose, CA 95125
Office Phone: 408-264-3114

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Lone Mountain Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

July 9, 1985
Date

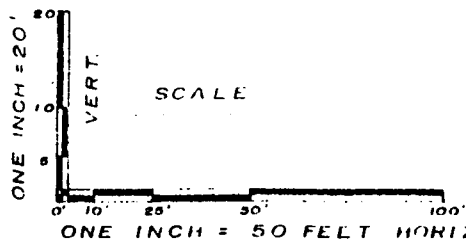
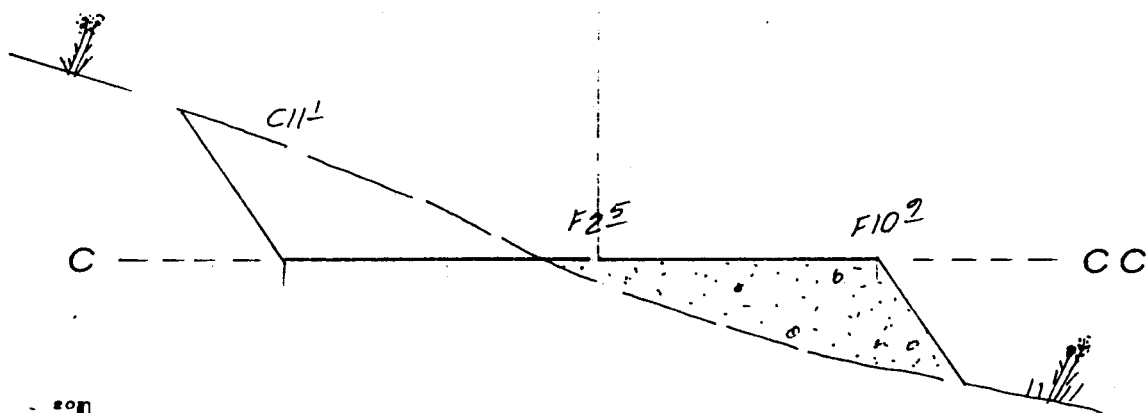
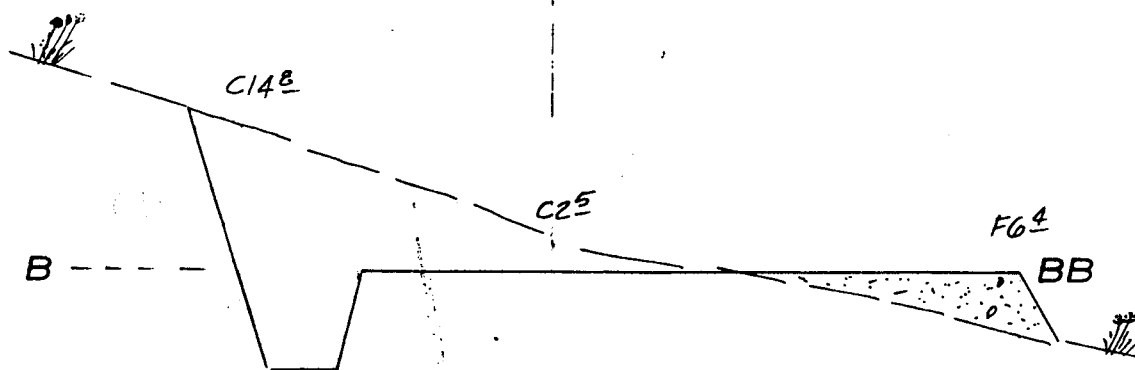
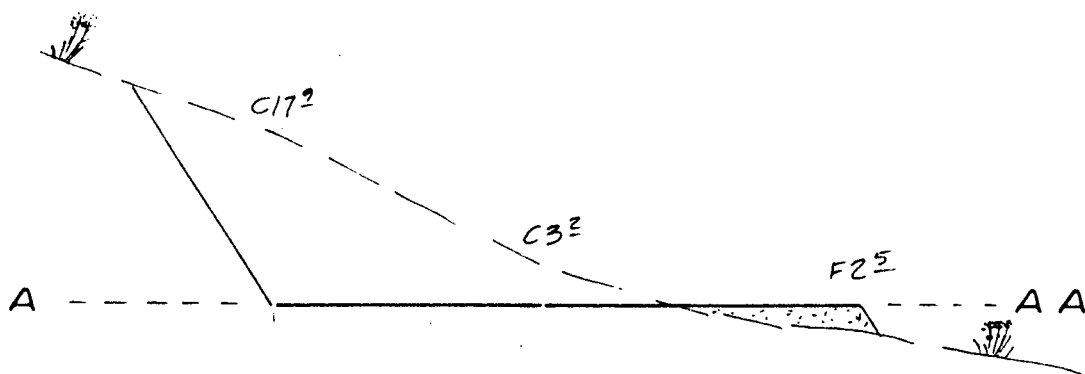
James G. Routson

SET 6' WHEEL POST WITH
REBAR SET ALONGSIDE.



PLAT # 2A

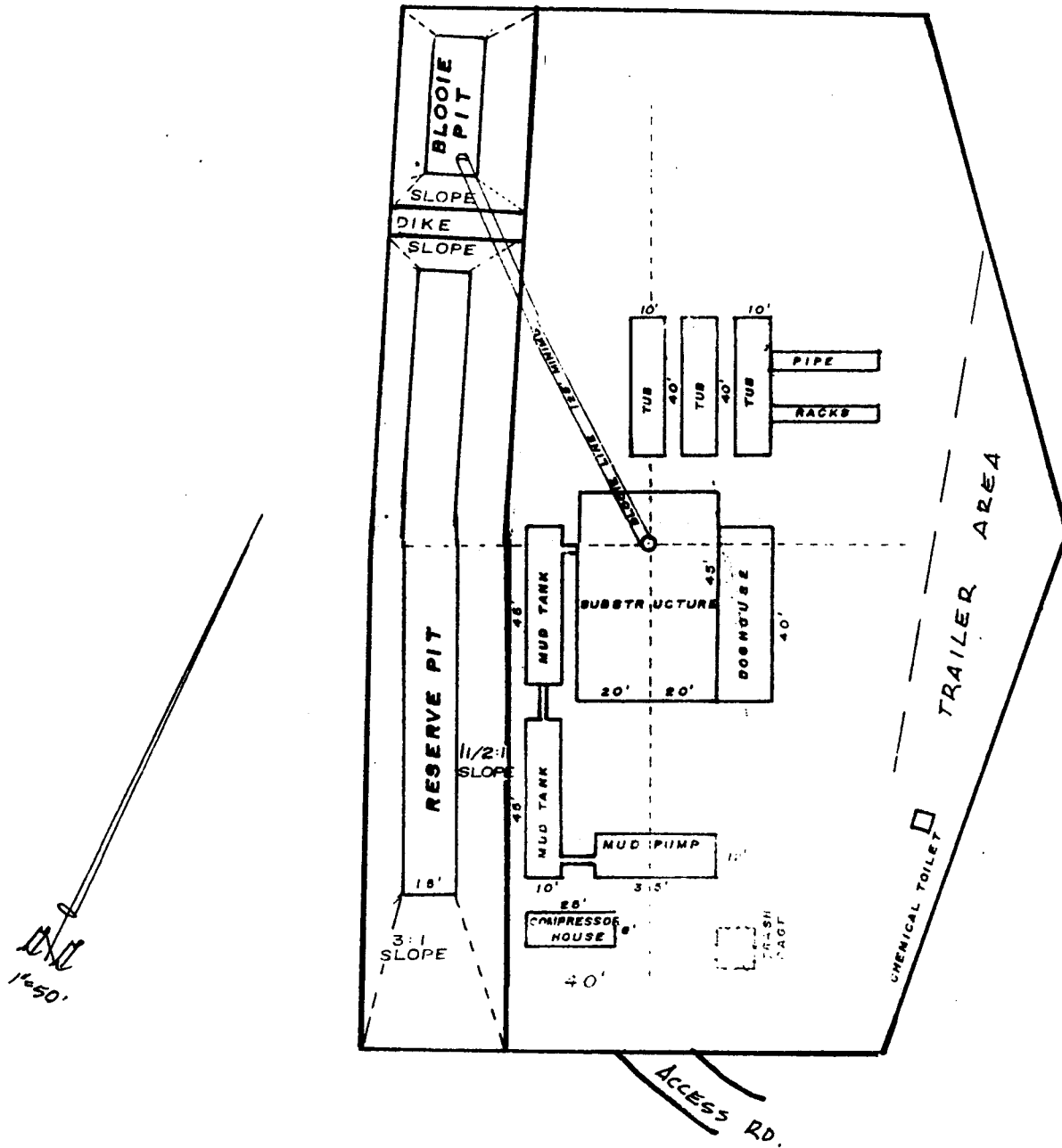
CROSS-SECTIONS
OF PIT & PAD



BURTON W HANCOCK
FED. # 3-4 LOCATION

PREPARED BY ENERGY SURVEYS & ENGINEERING CORP.

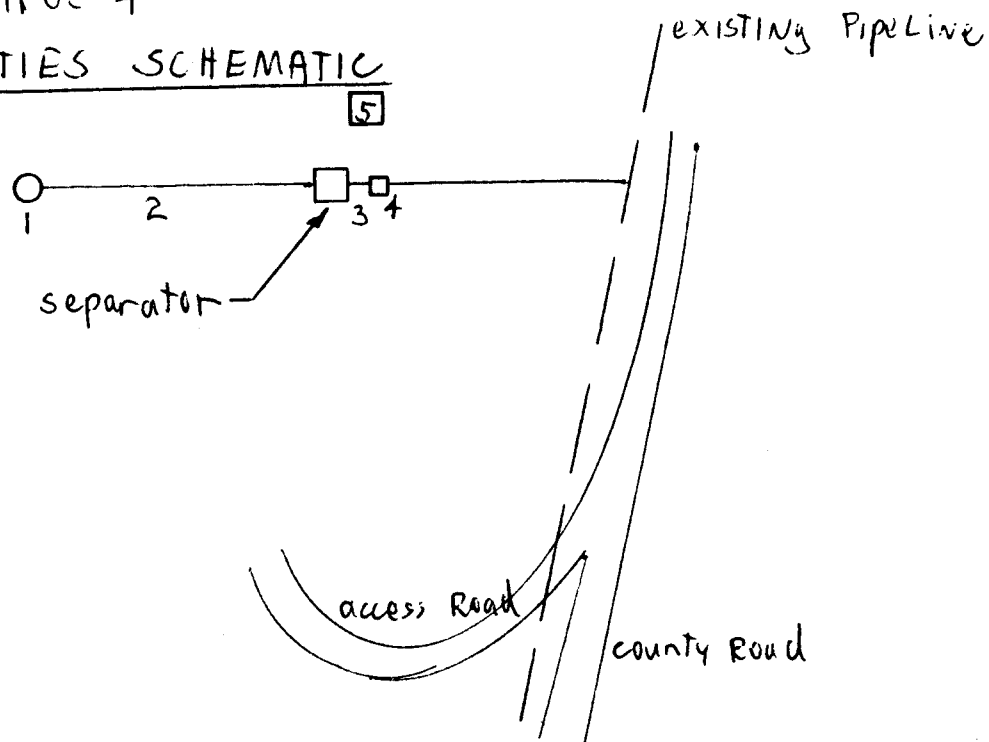
PLAT # 3 RIG LAYOUT



BURTON W. HANCOCK
FED. # 3-4 LOCATION

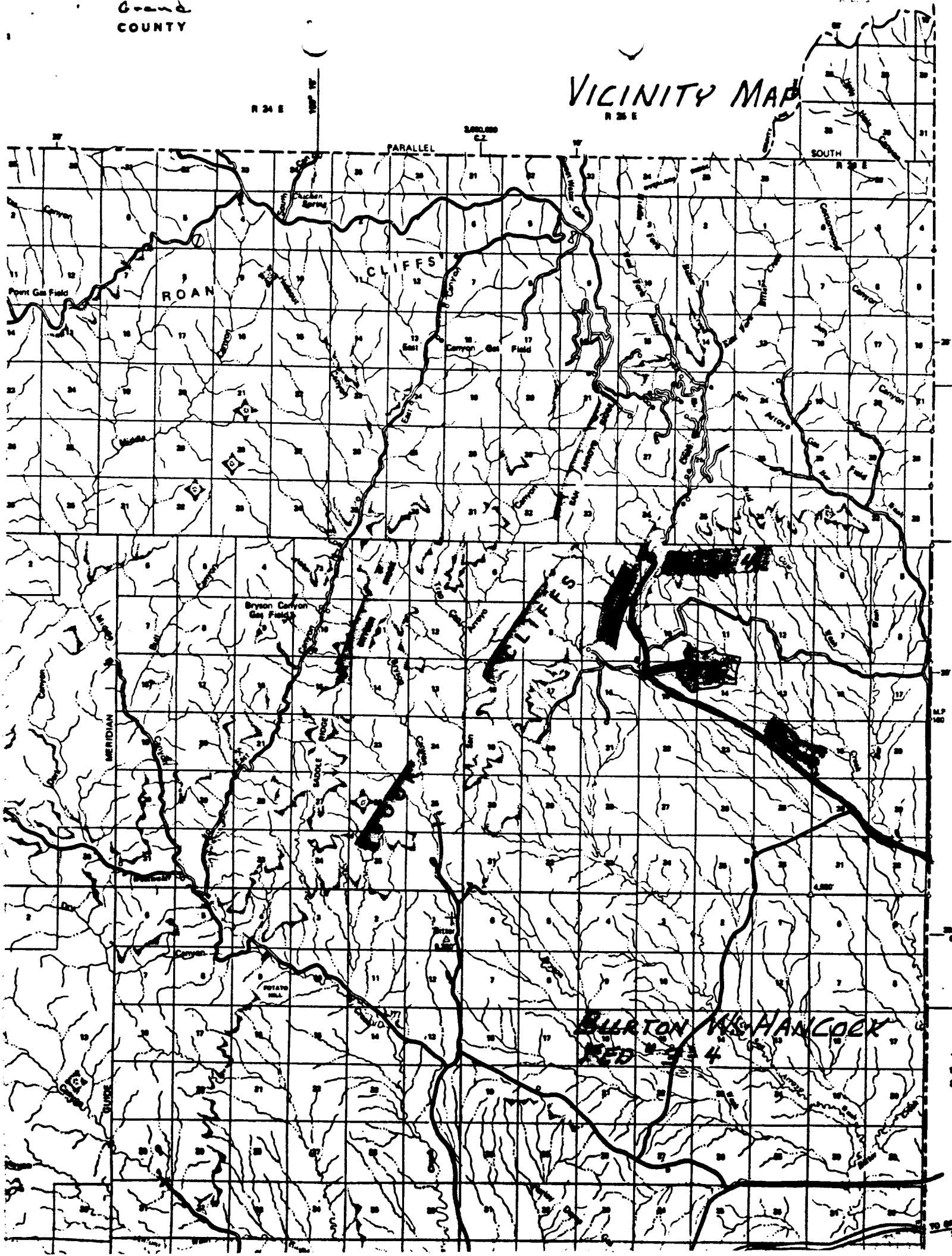
PLAT NO. 4

FACILITIES SCHEMATIC

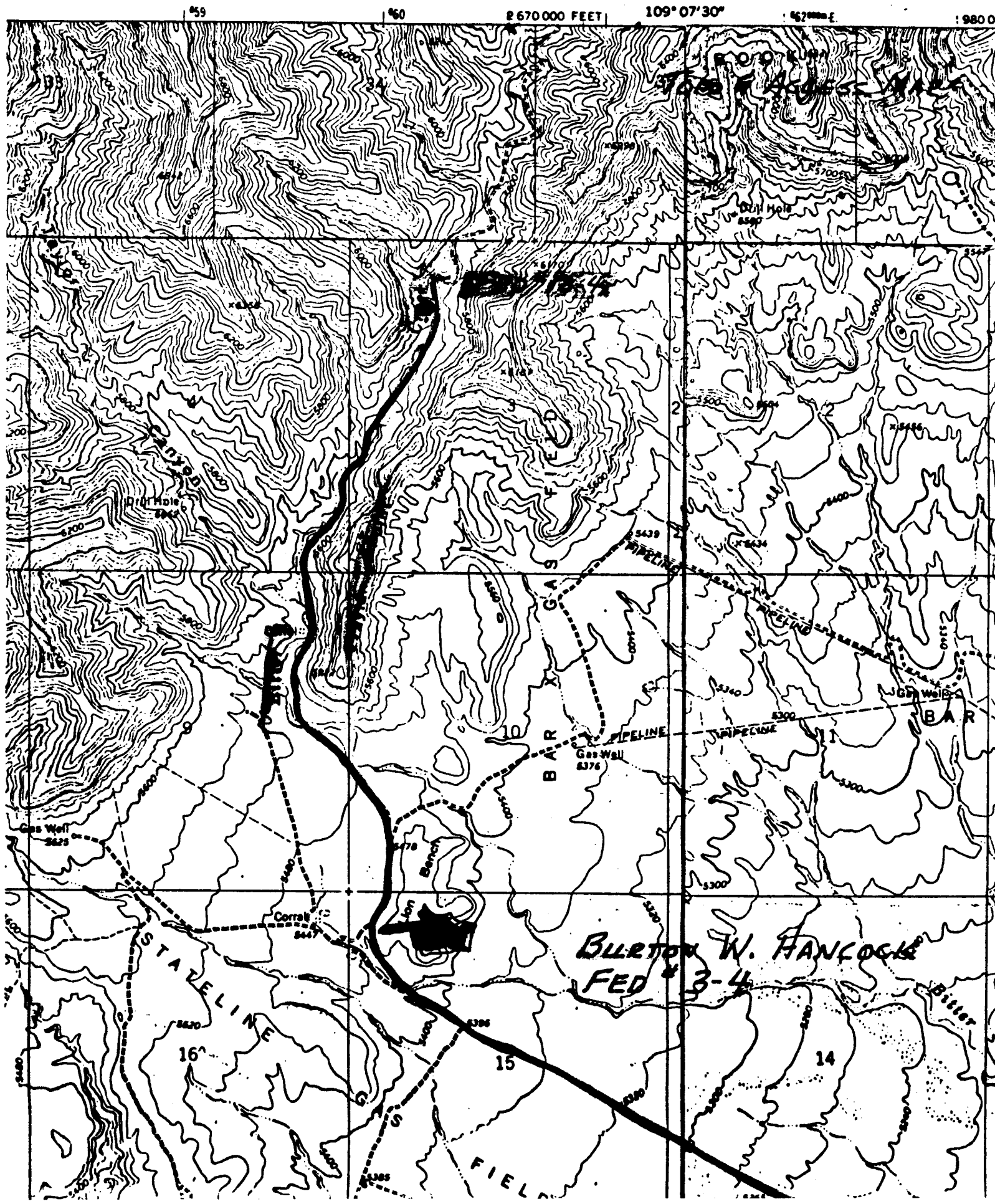


1. Wellhead will be an 8-5/8" Larkin Fig. 92 or equivalent. Tubing head will be a 4 1/2" x 6"-900 Series with two 2" 3000 psi screwed valves. Tree will be 2" screwed x 2000 psi W.P.
2. Line between wellhead and separator will be approximately 100 feet in length and constructed of 2-3/8" .218 wall seamless, welded, wrapped and buried approximately 5 feet deep.
3. Line between separator and meter will be 4" or 4.028 OD seamless, welded, coated, wrapped and buried, and will be approximately 25 feet in length.
4. Meter run will be American 2" run, or equivalent, 1000 psi static rating, 100" of water differential rating.
5. Pit will be 10'x 10', enclosed by dikes and fenced.

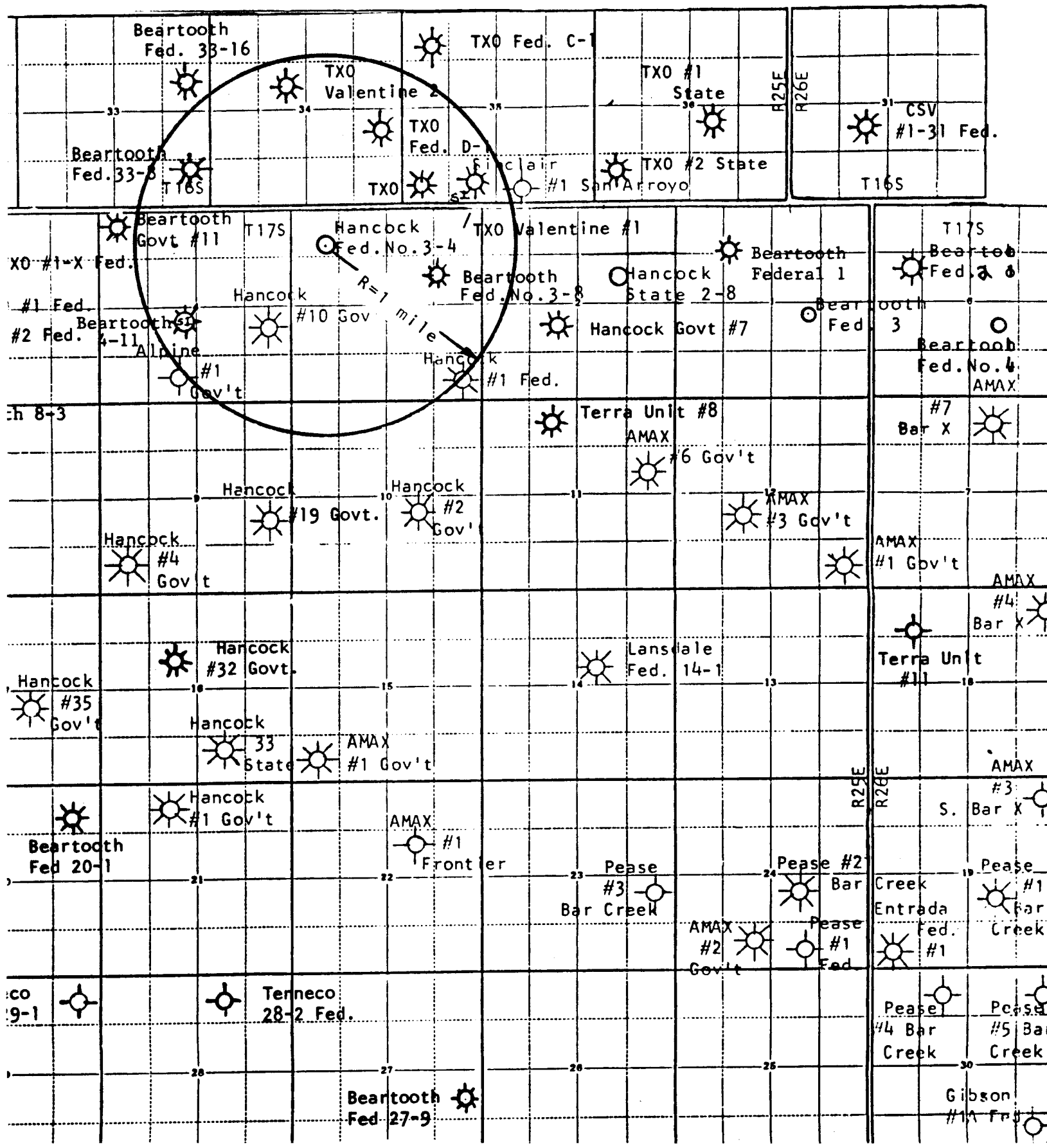
VICINITY MAP:



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Township 16, 17, 18S, Range 24, 25, 26E, County Grand, State Utah



OPERATOR Burton W. Hancock DATE 7-16-85
WELL NAME Winter Camp Unit
Federal 3-4
SEC NW NW 3 T 17S R 25E COUNTY Grand

43-019-3195
API NUMBER

Lease
TYPE OF LEASE

CHECK OFF:



PLAT



BOND



NEAREST WELL



LEASE



FIELD



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

~~Not valid as an LAD~~
Water - Mack Co.

APPROVAL LETTER:

SPACING:



A-3

Wintercamp
UNIT



C-3-a

CAUSE NO. & DATE



C-3-b



C-3-c

STIPULATIONS:



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 29, 1985

Burton W. Hancock
1799 Hamilton Avenue
San Jose, California 95125

Gentlemen:

Re: Well No. Winter Camp Unit Federal 3-4 - NW NW Sec. 3, T. 17S, R. 25E
1094' FNL, 1267' FWL - Grand County, Utah

Approval to drill the above-referenced gas well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-31195.

Sincerely,

R. J. Firth

Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN ALICATE^{*}
(Other instructions on
reverse side)

REC'D MDO JUL 11 1985
Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Burton W. Hancock

3. ADDRESS OF OPERATOR

1799 Hamilton Ave., San Jose, CA 95125

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1094 FNL, 1267 FWL, Section 3

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20 miles northwest of Mack, Colorado

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1094'

16. NO. OF ACRES IN LEASE

633.07

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

5850'

19. PROPOSED DEPTH

4400

17. NO. OF ACRES ASSIGNED
TO THIS WELL

NA, well is in a Federal
unit

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682 GL, 5693 KB

22. APPROX. DATE WORK WILL START*

September 3, 1985

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" new	24# H-40STC	300'	175 sacks Class "G" (to surface)
7-7/8"	4-1/2" new	10.5# J-55LTC	4400'	175 sacks RFC

RECEIVED

AUG 08 1985

DIVISION OF OIL
GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James D. Bouton

TITLE

Consulting
Petroleum Engineer

DATE

July 9, 1985

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

/s/ GENE NODINE

TITLE

DISTRICT MANAGER

DATE

08 AUG 1985

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

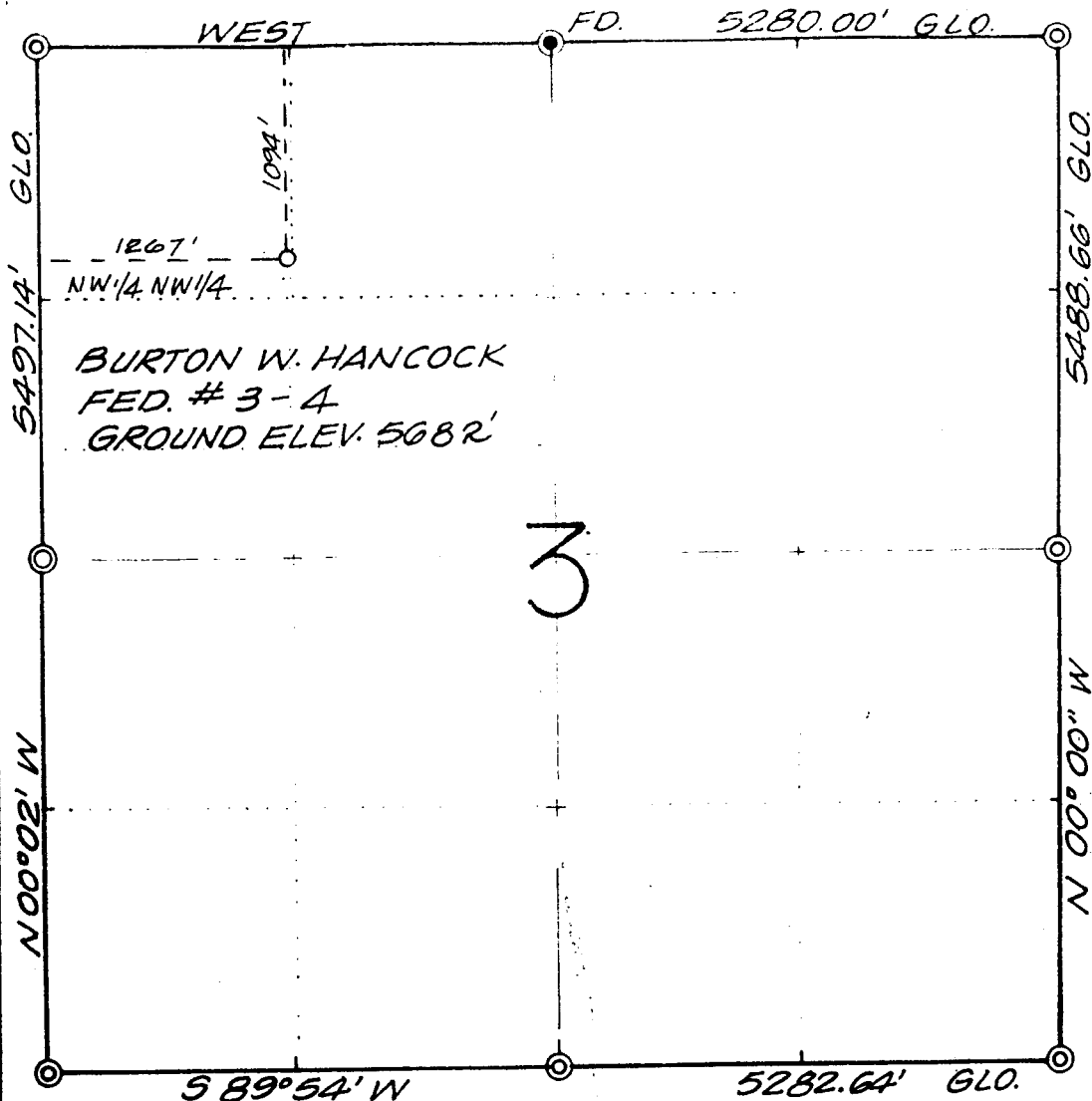
*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

State of Utah - D06M

FLARING OR VENTING OF
GAS IS SUBJECT OF NTL 4-A
DATED 1/1/80

SEC. 3, T.17 S., R.25 E. OF THE SLB & M



BASIS OF BEARING - WEST LINE OF SEC. 10

THIS WELL LOCATION PLAT WAS PREPARED FOR BURTON W. HANCOCK
TO LOCATE THE FED # 3-4, 1094' F.N.L. &
1267' F.W.L. IN THE NW 1/4 NW 1/4, OF SECTION 3, T.17 S., R.25 E
OF THE SLB & M.P.M. GRAND COUNTY, UTAH

SURVEYOR'S CERTIFICATE

I, LARRY D BECKER A REGISTERED LAND SURVEYOR IN
THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS
SURVEY WAS MADE UNDER MY DIRECT SUPERVISION
AND THAT THIS PLAT REPRESENTS SAID SURVEY.

Larry D Becker

SURVEYED	5-22-85	ENERGY SURVEYS & ENGINEERING CORP.	715 HORIZON DRIVE, SUITE 330 GRAND JUNCTION, CO. 81501 (303) 945-7221	SCALE 1" = 1000'
DRAWN	6-1-85			JOB NO.
CHECKED	6-1-85			SHEET OF

Burton W. Hancock
Well No. Wintercamp Unit Federal 3-4
Sec. 3, T. 17 S., R. 25 E.
Grand County, Utah
Lease U-05079

CONDITIONS OF APPROVAL

A. DRILLING PROGRAM

A backup source capable of closing the B.O.P.'s in case of a primary source failure will be available.

All pressure tests on the B.O.P.E. will be recorded in the driller's log.

Both casing strings will be tested to at least 1000 psi. This will be recorded in the driller's log.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Order 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to the field representative to insure compliance.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Office. If operations are to be suspended, prior approval of the District Office will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the Area Office within a minimum of 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within 24 hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Order No. 1 this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continued each month until the well is plugged and abandoned. This report will be sent to the District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Area Office in accordance with requirements of NTL-3A.

If a replacement rig is needed for completion operations, A Sundry Notice (Form 3160-5) to that effect will be filed for prior approval from the District Office, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations verbal approval to bring on a replacement rig will be approved through the District Office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

If the well is to be completed for production the Area Office is to be contacted in order to set up a pre-production conference. When the well is placed in a producing status the District Office is to be notified by telegram or other written communication within five working days.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

No well abandonment operations will be commenced without the prior approval of the District Office. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Office. A Subsequent Report of Abandonment (Form 3160-5) will be sent to the District Office within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Office, or the appropriate surface managing agency. Upon completion of approved plugging, a dry hole marker will be erected in accordance with 43 CFR 3162.6. The top of the marker will be closed or capped. The following minimum information will be permanently placed on the marker; "Fed" or "Ind", as applicable, "Lease number", "Well number", location of well by 1/4 1/4 section, township, and range.

B. SURFACE USE PROGRAM

The operator will contact the Grand Resource Area at (801) 259-8193, forty-eight (48) hours prior to beginning any dirt work on this location.

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance.

- Immediately upon completion of drilling, the location, and surrounding areas will be cleared of all remaining debris, materials, trash, and junk not required for production.

Produced waste water will be confined to a pit.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter along with any other sections occurring on the pad. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

The operator or his contractor will notify the Grand Resource Area at (801) 259-8193 forty-eight (48) hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

The following seed mixture will be used:

<u>Species</u>		<u>lbs/acre</u>
<u>Grasses</u>		
Sporobolus airoides	Alkali sacaton	1
Sporobolus cryptandrus	Sand dropseed	1
Agropyron smithii	Western wheatgrass	1
<u>Forbs</u>		
Melilotus officinalis	Yellow sweetclover	1/2
Helianthus annuus	Common sunflower (Kansas sunflower)	1/2
<u>Shrubs</u>		
Eurotia lanata	Winterfat (Whitesage)	1
Atriplex canescens	Fourwing saltbush	1
		6 lbs/acre

Broadcast seed will be applied at double the above rate.

Final location release will be issued when the seeding is shown to be successful (when perennial vegetation is established).

Your contact with the District Office is:

Greg Noble, Petroleum Engineer Office Phone: (801)259-6111
Home Phone: _____

District Address:

82 East Dogwood, P.O. Box 970
Moab, Utah 84532

Your contact with the Grand Resource Area Office is:

Jeff Robbins Office Phone: (801)259-8193
Home Phone: (801)259-7964

Area Office Address:

Sand Flats Road, P.O. Box M
Moab, Utah 84532

Burton Hancock

RECEIVED

SEP 19 1985

9/6/85
(Date)

**DIVISION OF OIL
GAS & MINING**

DRILLING PROGNOSIS

Federal No. 3-4
NW $\frac{1}{4}$ NW $\frac{1}{4}$ (1094' FNL, 1267' FWL) Section 3-T17S-R25E
Wintercamp Unit
Grand County, Utah

Elevations: 5682 G.L.
5693 K.B.

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Mancos	Surface	
Frontier	3390'	+ 2303
Dakota Silt	3710	+ 1983
Dakota	3793'	+ 1900
Morrison	4000'	+ 1693
Salt Wash	4295'	+ 1398
Total Depth	4400	+ 1293

CONTRACTOR

Name CARMACK WELL SERVICE, INC.
Address 2154 Highway 6450, Grand Junction, Colorado 81505
Office Phone (303) 245-2500
Rig No. 20 Toolpusher Chris Carmack
Home Phone (303) 245-8305 Mobile or Rig Phone (303) 245-3660
Unit 5460

WELL SITE GEOLOGIST

Name Rocky Mountain Geo-Engineering (Bill Nagel)
Address 2450 Industrial Blvd., Grand Junction, CO 81501
Office Phone 303/243-3044 Home Phone 303/242-4160

Geologist will be on location in sufficient time to be oriented prior to drilling of the Frontier. Geologist will make a written sample description and prepare a drilling time log from 3000'. Geologist will make daily phone calls to Lone Mountain Production Company's office by 8:00 A.M. Mountain Time. When shows are encountered, a representative of Lone Mountain Production Company will be contacted.

SAMPLES

30 ' samples under surface to 3350'.
15 ' samples from 3350' to T.D..

Shorter intervals at discretion of well site Geologist.

A set of samples will be delivered or sent to Saved by Rocky Mountain
for one year.

DRILL STEM TESTING

No DST will be run.

Any gas encountered will be measured using a flow proper at the end of a two-inch line which is tied to BOP below the pipe rams.

Flare to be burning at end of blowie line at all times.

DRILLING PROGRAM

Hole Size	Casing Program			
	Size	Weight	Depth	Cement
12-1/4" to 300'	8-5/8"	H-40 STC 24 #	300'	Class "G" to surf. 175 sx
7-7/8" to T.D.	4-1/2"	J-55 LTC 10.5 #	T.D.	RFC 175 sx
_____ to _____	_____"	_____ #	_____	_____

MUD PROGRAM

Type	Depth		Characteristics			
	From	To	Weight	Visc.	% Oil	W.L.
Air or Mist	0'	300'				
Air	300'	T.D.				
At T.D.			8.7	35-40	0	15
Note: If water is encountered, chemical-gel type mud will be used.						

CONTRACT DEPTH

4500 feet.

STRAP-OUT

Contractor to strap pipe prior to any coring, testing, logging or before reaching the depth of 3700 feet.

DEVIATION SPECIFICATIONS

Surface Pipe set with 1° or less.
Maximum change of 1° per 100', not to exceed 10° at T.D.

TESTING B.O.P.

Test to 1000 psig before drilling shoe joint on surface casing.
Work pipe rams daily, blind rams on trips.

LOGGING PROGRAM

GR-SP-DIL: T.D. to base of surface casing.

GR-FDC-CNL: T.D. to above Frontier formation.

LONE MOUNTAIN PRODUCTION COMPANY'S REPRESENTATIVES

Office: P.O. Box 3394
408 Petroleum Building
Billings, Montana 59103

Office Phone: 406/245-5077

Glen Ross, Box 1822, Roosevelt UT 84066 (Home: 801/353-4203)

James G. Routson

Home Phone: 406/245-8797

Thomas M. Hauptman

Home Phone: 406/652-4729

Home Phone: _____

Home Phone: _____

Home Phone: _____

DISTRIBUTION OF WELL INFORMATION

Attached is a list of participants' addresses and telephone numbers, together with the number of copies of all well information to be received by each.

The Geologist and Company Man will have the service companies make direct distribution of material when possible.

REPORTS REQUIRED

- 1) Copy of daily drilling report.
- 2) Copy of drilling time charts (Geolograph Charts).
- 3) Deviation charts

Contractor or Company Man will make daily phone calls to Lone Mountain Production Company's office by 8:00 A.M., Mountain Time, during regular office hours or to Lone Mountain Production Company's representative as shown above.

PARTICIPANTS

Federal No. 3-4

(Well Name)

<u>Name and Address</u>	<u>Office Phone</u>	<u>After Hours, Contact:</u>	<u>Home Phone</u>
Burton W. Hancock 1799 Hamilton Avenue San Jose, CA 95125	(408) 264-3114	Burton W. Hancock	(408) 370-2394
LONE MOUNTAIN PRODUCTION COMPANY P.O. Box 3394 408 Petroleum Building Billings, MT 59103	(406) 245-5077	James G. Routson Thomas M. Hauptman	(406) 245-8797 (406) 652-4729

Bureau of Land Management
Box 970
Moab, UT 84532

(801) 259-6111

Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

(801) 533-5771

DISTRIBUTION OF INFORMATION

Federal No. 3-4

(Well)

Name & Address	Open Hole Logs		Cased Hole Logs	Core, Fluid Analysis, DST Charts	Geol. Report	Permit, Forms, Prognosis
	Field	Final				
Burton W. Hancock 1799 Hamilton Avenue San Jose, CA 95125	4	4	4	4	4	4
Burton W. Hancock Stateline Natural Gas 1048 Independent Avenue Suite 205-A Grand Junction, CO 81505	1	1	1	1	1	1
LONE MOUNTAIN PRODUCTION COMPANY P.O. Box 3394 408 Petroleum Building Billings, MT 59103	2	2	2	2	2	2
Burkhalter Engineering ATTN: Ralph Snow Suite 330 715 Horizon Drive Grand Junction, CO 81501	1		1			
Bureau of Land Management Box 970 Moab, UT 84532	2	2	2	2	2	2
Division of Oil, Gas & Mining 4241 State Office Building Salt Lake City, UT 84114	1	1	1	1	1	1

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

API #43-019-31195

NAME OF COMPANY: BURTON HANCOCKWELL NAME: WINTER CAMP UNIT FEDERAL 3-4SECTION NW NW 3 TOWNSHIP 17S RANGE 25E COUNTY GrandDRILLING CONTRACTOR Carmack Well ServiceRIG # 20SPUDDED: DATE 10-2-85TIME 2:00 PMHOW RotaryDRILLING WILL COMMENCE REPORTED BY Bonnie PaulTELEPHONE # 406-245-5077DATE 10-2-85 SIGNED AS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

2

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a well.
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-05079	
2. NAME OF OPERATOR BURTON W. HANCOCK		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1977 Hamilton Avenue, San Jose, California 95125		7. UNIT AGREEMENT NAME Wintercamp	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1094' FNL, 1267' FWL (NW $\frac{1}{4}$ NW $\frac{1}{4}$)		8. FARM OR LEASE NAME Federal	
14. PERMIT NO. 43-019-31195		9. WELL NO. 3-4	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5682 GL, 5686 KB		10. FIELD AND POOL, OR WILDCAT Undesignated	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3-T17S-R25E	
		12. COUNTY OR PARISH Grand	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Status Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

KB correction from original APD to 5686'.

Spudded 12 $\frac{1}{4}$ " hole at 2:00 P.M., 10/2/85. Carmack Well Service Rig No. 20.

18. I hereby certify that the foregoing is true and correct

SIGNED

James B. Rantzen

TITLE

Consulting

Petroleum Engineer

DATE

10/3/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

2

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back a well. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED

OCT 15 1985

DIVISION OF OIL
& GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-05079

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Winter Camp

8. FARM OR LEASE NAME

Federal

9. WELL NO.

3-4

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 3-T17S-R25E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

14. PERMIT NO.

API #43 019 31195

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682 GL, 5687 KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Status Report

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

KB corrected from previous reports.

Drilled 12 $\frac{1}{4}$ " hole to 330'. Ran 8-5/8", 24#, J-55 casing to 326'. Cemented with 175 sx Class H, 3% CaCl₂. Good cement returns to surface.

Drilled 7-7/8" hole to 4400'. Ran 4 $\frac{1}{2}$ ", 10.5#, J-55 Casing to 4259'. PBD 4217'. Cemented with 275 sx Thixotropic cement. Rig released at noon, 10/7/85.

Will move in completion rig about 11/1/85.

Log Tops:	Dakota Silt	3690
	Dakota Sand	3792
	Morrison	4024
	Salt Wash	4309

18. I hereby certify that the foregoing is true and correct

SIGNED

James D. Bouton

TITLE

Consulting
Petroleum Engineer

DATE

10/11/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

BURTON W. HANCOCK
FEDERAL 3-4
NW/NW SECTION 3-T17S-R25E
GRAND COUNTY, UTAH

GEOLOGIC REPORT
BY
BILL NAGEL
ROCKY MOUNTAIN GEO-ENGINEERING COMPANY

WELL SUMMARY

OPERATOR: BURTON W. HANCOCK

WELL NAME: FEDERAL #3-4

LOCATION: NW/NW SECTION 3, T17S, R25E
FOOTAGE: 1094' FNL - 1267' FWL

COUNTY: GRAND

STATE: UTAH

AREA: WINTERCAMP UNIT

ELEVATION: 5682 GL - 5687 KB

SPUD DATE: 10/2/85

COMPLETION DATE: 10/6/85

DRILLING ENGINEER: GLENN ROSS

WELLSITE GEOLOGY: ROCKY MOUNTAIN GEO-ENGINEERING COMPANY
GEOLOGIST: BILL NAGEL

DRILLING CONTRACTOR: CARMACK WELL SERVICE, INC.
RIG: RIG #20

TOOL PUSHER: CHRIS CARMACK

HOLE SIZE: 12½" TO 330' - 7 7/8" TO T.D.

CASING RECORD: 8 5/8" TO 326' - 4½" TO T.D.

AIR COMPRESSORS: FRONTIER AIR DRILLING COMPANY

ELECTRIC LOGGING: SCHLUMBERGER

TYPE OF LOGS RUN: DIL-SP-GR, FDC-CNL-GR

OBJECTIVE: DAKOTA, MORRISON

TOTAL DEPTH: 4403'

STATUS: RUN 4½" PRODUCTION CASING

BURTON W. HANCOCK
FEDERAL #3-4
NW/NW SECTION 3-T17S-R25E
GRAND COUNTY, UTAH

WELL CHRONOLOGY

1985 DATE	MDNT DEPTH	FTG/ DAY	DAILY OPERATIONS
10/4	330	1842	RUN BLOOIE LINE - RIH & UNLOAD HOLE - DRL CMT - DRY HOLE - DRLG AHEAD - REPAIR SWIVEL - DRLG
10/5	2172	1981	DRLG - TEST WELL - DRLG - MIST UP - DRLG AHEAD
10/6	4153	250	DRLG TO T.D. - MUD UP - CIRC - POOH FOR LOGS

BIT RECORD

WELL NAME: FEDERAL 3-4 ELEVATION: GL 5682' - KB 5687'
CO. NAME: BURTON W. HANCOCK SECTION: 3 - 17S -25E
CONTRACTOR: CARMACK DRLG RIG# 20 CO. & STATE: GRAND, UTAH
SPUD DATE: 10/2/85 T.D. DATE: 10/6/85

[illegible]

BURTON W. HANCOCK
FEDERAL #3-4
NW/NW SECTION 3, T17S, R25E
GRAND COUNTY, UTAH

SAMPLE DESCRIPTIONS

3100-3130	100%	SH dkgy frm blk-pty
3130-3160	100%	SH dkgy frm blk-pty sl slty
3160-3190	100%	SH AA
3190-3220	100%	SH AA
	TR	BENT wh sft pty
3220-3250	100%	SH dkgy frm blk-pty
3250-3280	100%	SH AA
	TR	BENT wh sft pty
3280-3310	100%	SH AA
3310-3340	100%	SH dkgy frm blk-pty
3340-3370	100%	SH AA
3380-3410	100%	SH AA
3410-3440	100%	SH dkgy frm blk-pty
	TR	BENT wh sft pty
3440-3470	100%	SH AA
3470-3500	100%	SH dkgy-blk frm blk-pty
3500-3515	100%	SH blk frm blk-pty
3515-3530	100%	SH AA
	TR	BENT wh sft pty
3530-3545	100%	SH AA
	TR	SS lt brn vfg mcmt msrt sbang-sbrd arg
3545-3560	100%	SH dkgy-blk frm blk-pty
3560-3575	90%	SH AA
	10%	SS clr-lt brn vfg mcmt-uncons sbrd slarg calc
3575-3590	80%	SH dkgy-blk frm blk-pty occ sl slty & sndy
	20%	SS AA
	TR	BENT ltgy-wh yell sft pty
3590-3605	90%	SH AA
	10%	SS ltbrn vfg mcmt-pcmt sbrd sl arg calc
3605-3620	60%	SH dkgy frm blk-pty occ sl sndy
	40%	SS clr-ltgy vfg mcmt m-wsrt sbrd occ glau incl sl arg & slty calc
3620-3635	60%	SS ltgy-mgy vfg mcmt m-wsrt sbang-sbrd occ glau incl arg sl slty calc
	40%	SH AA
3635-3650	60%	SH dkgy frm blk-pty sndy
	40%	SS AA
3650-3665	70%	SH AA
	30%	SS clr vfg occ fgr uncons wsrt sbrd-sbang
3665- 3680	80%	SH dkgy frm blk-pty occ sndy occ glau incl
	20%	SS AA
3680-3695	60%	SH AA
	40%	SS clr vf-fg uncons wsrt sbrd
3690-3710	60%	SS ltgy-clr vfg mcmt uncons msrt sbrd sl arg slty
	40%	SH dkgy frm blk-pty occ sndy
3710-3725	80%	SH dkgy frm blk-pty sndy occ glau incl
	20%	SS AA
3725-3740	90%	SH AA
	10%	SS ltgy vfg mcmt uncons msrt sbang-sbrd sl arg
3740-3770	100%	SH dkgy frm blk-pty sl sndy
	ABNT	BENT wh sft pty

BURTON W. HANCOCK
FEDERAL #3-4
SAMPLE DESC. CONTINUED

3770-3785	80%	SH dkgy frm blk-ply occ sl sndy
	20%	SS ltgy-clr vfg mcmt m-wsrt sband-sbrd sl slty
	ABNT	BENT wh sft ply
3785-3800	60%	SH AA
	40%	SS ltgy vfg mcmt wsrt sbrd slty sl cly fl
	TR	BENT AA
3800-3830	100%	SS clr vfg uncons m-wsrt sbrd
3830-3845	50%	SS AA
	50%	SH dkgy ltgy frm blk-ply wxy
3845-3860	80%	SH lt-mgy frm blk-ply wxy occ sndy
	20%	SS clr vfg uncons m-wsrt sbrd
3860-3890	100%	SS clr vf-fg uncons wsrt sbrd
3890-3905	100%	SS clr vf-fg uncons wsrt sbang-sbrd
3905-3920	100%	SH ltgy-mgy frm blk occ ply occ slty
3920-3935	80%	SS ltgy vfg mcmt wsrt sbang-sbrd slty sl arg
	20%	SH AA
3935-3950	80%	SH red-mar sft-frm blk slty & sndy
	20%	SS ltgrn vfg m-wsrt sbrd sl arg
3950-3965	50%	SH mby grn frm blk occ slty & sndy
	30%	SS clr frac vf-fg uncons p-msrt sband-sbrd occ ang
	20%	CHT orng yel grn hd ang
	TR	COAL blk frm-sft arg
3965-3995	100%	SS clr vf-fg occ mg uncons msrt sbrd occ sbang
3995-4030	-	No Sample, No Returns
4030-4040	80%	SH red brn ltgrn frm blk-ply
	20%	SS ltgy-clr vfg wcmt msrt sbrd
4040-4055	70%	SH red brn purp grn frm blk-ply
	30%	SS ltgy-ltgrn vfg wcmt msrt sbrd-sbang sl cly fl
4055-4070	70%	SH AA
	30%	SS ltgrn clr wh vfg wcmt m-wsrt sbang-sbrd
4070-4085	60%	SS wh-ltgy clr vf-fg wcmt m-wsrt sbang-sbrd
	40%	SH ltgy-ltgrn frm-hd blk occ ply occ sl sndy
4085-4105	70%	SS wh clr vf-fg w-mcmt m-wsrt sbang-sbrd
		SH AA
4105-4120	80%	SH red purp frm-hd bldy-ply occ slty
	20%	SS AA
4135-4165	100%	SH red grn frm-hd blk-ply occ slty
4165-4180	90%	SH red purp frm-hd blk-ply occ slty
	10%	SS clr vf-fg uncons m-wsrt sbang-sbrd
4180-4195	100%	SH AA
4195-4225	100%	SH red purp grn frm-hd blk-ply occ slty
4225-4240	100%	SH red frm-hd blk-ply occ slty
4240-4255	70%	SH AA
	30%	SS wh occ clr vfg m-wcmt m-wsrt sbang-sbrd slty
4255-4270	70%	SH red mgy purp ltgrn frm-hd blk-ply occ slty
4270-4285	80%	SH AA
	20%	SS ltgrn mgy vfg m-wcmt m-wsrt sbang-sbrd sl slty arg
4285-4300	80%	SH red mgy frm blk-ply occ slty & sndy
	20%	SS AA
4300-4315	70%	SH AA
	30%	SS wh pink lt-mgy vfg wcmt msrt sbang-sbrd occ sl arg occ slty
4315-4330	70%	SH red mgy ltgrn frm blk-ply occ slty & sndy
	30%	SS wh vfg m-wcmt wsrt sbrd
	TR	Por
4330-4345	80%	SH AA
	20%	SS wh orng-pink m-wcmt wsrt sbrd
	TR	Por

BURTON W. HANCOCK

FEDERAL #3-4

SAMPLE DESC. CONTINUED

4345-4360	70%	SH red mgy frm-hd blkyl-pty occ slty
	30%	SS wh ltgy clr vfg m-wcmt wsrt sbang-sbrd
	TR	LS mgy frm-hd blkyl crpxl arg
4360-4375	80%	SH AA
	20%	SS whclr vfg occ fg m-wcmt wsrt sbang-sbrd
	TR	LS AA
4375-4390	90%	SH red lav purp frm-hd blkyl-pty occ sl slty
	10%	SS AA
	TR	LS AA
4390-4403	80%	SH AA
	20%	SS wh clr vfg m-wcmt wsrt sbrd

BURTON W. HANCOCK
 FEDERAL #3-4
 NW/NE SECTION 3-T17S-R25E
 GRAND COUNTY, UTAH

FORMATION	FORMATION TOPS		
	SAMPLE	E-LOG	DATUM
MANCOS	SURFACE	SURFACE	
FRONTIER	3410'	3435'	+2252
DAKOTA SILT	3675'	3689'	+1998
DAKOTA	3779'	3777'	+1910
MORRISON	4015'	4024'	+1663
SALT WASH	4275'	4295'	+1392

GEOLOGIC SUMMARY
AND
ZONES OF INTEREST

The Burton W. Hancock well, Federal #3-4, was a Dakota and Morrison test in the Winter Camp Unit. The well was located in the NW/NW Section 3, T17S, R25E of Grand County, Utah. Spudded in the Mancos Formation on October 2, 1985, the well was drilled to a total depth of 4403' in the Morrison Formation on October 6, 1985. Production casing was run to total depth. Geological coverage began at 3100'.

MANCOS FM (SURFACE - 3435')

The Mancos Formation consisted of dark gray, firm, blocky to platy, occasionally silty shale. This shale also contained traces of bentonite.

The Mancos produced one gas show at 3395'-3399' of 10 units. Background gas was 2 units and connection gas was 65 to 90 units.

FRONTIER FM (3435' - 3689')

The Frontier was predominantly shale which became slightly sandy at the base. The shale was dark gray, black, firm and platy to blocky, changing from dark gray to black at 3495'. The sandstone was light brown, light to medium gray, clear, very fine grained, medium cemented, medium to well sorted, subrounded and slightly argillaceous.

One gas show occurred at 3550'-3555' of 25 units. Background gas ranged from 2-15 units and connection gas from 58-127 units.

DAKOTA SILT (3689' - 3777')

The Dakota Silt was composed of interbedded sandstone and shale. The sandstone was light gray, clear, very fine grained, medium cemented, unconsolidated, medium sorted, subrounded to subangular and slightly argillaceous. The shale was dark gray, firm, blocky to platy, silty and occasionally with glauconite inclusions.

Two gas shows were noted in the Dakota Silt in a sandstone bed at 3700'-3704' of 10 units and at 3765'-3770' of 20 units. Background gas was 2 units and connection gas was 35-46 units.

DAKOTA FM (3777' - 4024')

The Dakota Formation contained three sandstone beds with shale in-between the sand beds. The top sandstone bed at 3798'-3830' was a clear, very fine grained, unconsolidated, medium to well sorted and subrounded sandstone. During the drilling of this sandstone, the gas increased from 2 units at the top to 200 units at the base of the sandstone. Although there was no flaring during this gas show, the connection gases did flare and increased up to 1200 units. Electric logs showed this zone to have good crossover with 9-11% average porosity. This sand zone was drilled dry with no evidence of any moisture in the formation.

The second sandstone of the Dakota was noted at 3870'-3902'. This sandstone was clear, very fine to fine grained, unconsolidated, well sorted and subrounded to subangular. During the drilling of this sand interval, the gas increased to 600 units with a 15 foot continuous flare. Connection gas also

increased to 1800 units and continuing to flare on every connection until T. D. Electric logs showed this zone to have good crossover with 12%-14% average porosity. This sandstone was also drilled dry with no evidence of any moisture in the formation.

The last Dakota sandstone bed occurred at 3980'-4023'. This sand was clear, very fine to medium grained, unconsolidated, medium sorted and subrounded. There were two gas shows noted in this sand interval. At 3980' the gas increased from 480 to 640 units. The hole became damp during the drilling of this zone at 3995' and it became necessary to start drilling with air mist. Electric logs showed this sand interval to be wet with occasional traces of crossover and an average of 16% porosity.

MORRISON FM (4024' - T. D.)

The upper member of the Morrison, the Brushy Basin (4024'-4295'), was composed primarily of shale with occasional sandstone beds. The sandstone was light gray, white, light green, pink-red, very fine to fine grained, medium to well cemented, medium to well sorted, subrounded to subangular and occasionally silty and argillaceous. The shale was red, brown, purple, green, light to medium gray, firm to hard, blocky to platy and occasionally silty. There were no gas shows evident in the Brushy Basin Member. Background gas was 300-400 units and connection gas was 900-1100 units.

The lower member of the Morrison, the Salt Wash (4295'-T.D.), contained interbedded sandstone and shale. The shale was red, medium gray, purple, light green, lavender, firm to hard and blocky to platy. The sandstone was a white, light gray, clear, pink, very fine grained, medium to well cemented, well sorted and subrounded to subangular. There was also a trace of medium gray limestone in the Salt Wash. There were no hydrocarbon shows noted in the Salt Wash Member. Background gas was 300 units and connection gas 840-940 units.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, UT 84114

RECEIVED**OCT 17 1985**DIVISION OF OIL AND
GAS & MINING*REPORT OF WATER ENCOUNTERED DURING DRILLING*Well Name & Number FEDERAL NO. 3-4 (API No. 43-019-31195)Operator Burton W. Hancock Address 1799 Hamilton Ave., San Jose, CA 95125Contractor Carmack Well Service Address 2154 Hwy 6 & 50, Grand Junction, CO 81505Location NW 1/4 NW 1/4 Sec. 3 T. 17S R. 25E County GrandWater Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	None			
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

<u>Formation Tops</u>	Dakota Silt	3690
	Dakota Sand	3792
	Morrison	4024
	Salt Wash	4309
<u>Remarks</u>		

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO U-05079	
2. NAME OF OPERATOR BURTON W. HANCOCK		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1799 Hamilton Avenue, San Jose, California 95125		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1094' FNL, 1267' FWL, Section 3		8. FARM OR LEASE NAME Federal	
14. PERMIT NO. 43-019-31195		9. WELL NO. 3-4	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5682 GL, 5687 KB		10. FIELD AND POOL, OR WILDCAT Undesignated	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR ARMA NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3-T17S-R25E	
		12. COUNTY OR PARISH Grand	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Status Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Shut in--waiting on pipeline.

18. I hereby certify that the foregoing is true and correct		Consulting	
SIGNED	<i>James G. Routson</i>	TITLE	Petroleum Engineer
(This space for Federal or State office use)		DATE	12/2/85
APPROVED BY		TITLE	C
CONDITIONS OF APPROVAL, IF ANY:		DATE	

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other DEC 05 1985

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RENVR. ☐ Other DIVISION OF OIL GAS & MINING

2. NAME OF OPERATOR
BURTON W. HANCOCK

3. ADDRESS OF OPERATOR
1799 Hamilton Avenue, San Jose, California 95125

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1094' FNL, 1267' FWL, Section 3

At top prod. interval reported below
Same

At total depth
Same

14. PERMIT NO. 43-019-31195 DATE ISSUED July 29, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-05079

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

3-4

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3-T17S-R25E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

15. DATE SPUDDED 10/2/85 16. DATE T.D. REACHED 10/6/85 17. DATE COMPL. (Ready to prod.) 11/13/85 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5682 GL, 5687 KB 19. ELEV. CASINGHEAD 5684

20. TOTAL DEPTH, MD & TVD 4400' 21. PLUG, BACK T.D., MD & TVD 4217' 22. IF MULTIPLE COMPL., HOW MANY* --- 23. INTERVALS DRILLED BY --- ROTARY TOOLS 0-TD CABLE TOOLS None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Dakota Sandstone 3792 - 3902

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR-FDC-CNL, SP-DID, GR-CBL-VDL

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#, J-55	326	12 $\frac{1}{4}$ "	175 sx (to surface)	None
4 $\frac{1}{2}$ "	10.5#, J-55	4259	7-7/8"	275 sx (cement top 3130)	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					1 $\frac{1}{2}$ "	3910	None

31. PERFORATION RECORD (Interval, size and number)

3803, 3812, 3830, 3837, 3875, 3880, 3892, 3894; 8 holes total, .31" diameter jets

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3803-3894	600 gallons 15% HCl
3803-3894	Foam fractured with 29,000#
	100 mesh sand, 125,000# 16-30
	mesh sand; 113,400 gallons 75
	quality foam

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
11/13/85		Flowing					Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
11/14/85	18		→	0	943	0	---	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
210 psia	450 psia	→	---	1257	0	---		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

Dave Terrell

35. LIST OF ATTACHMENTS

None--Logs sent direct by service companies

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

James G. Routson

TITLE

Petroleum Engineer

DATE

12/2/85

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Dakota	3792	3830	Gas	Mancos	Surface	
Dakota	3870	3902	Gas	Frontier	3435	
Dakota	3980	4024	Tight, damp with water	Dakota Silt	3690	
				Dakota Sand	3792	
				Morrison	4024	
				Salt Wash	4309	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-05079	
2. NAME OF OPERATOR BURTON W. HANCOCK		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1799 Hamilton Avenue, San Jose, California 95125		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1094' FNL, 1267' FWL, Section 3		8. FARM OR LEASE NAME Federal	
14. PERMIT NO. 43-019-31195		9. WELL NO. 3-4	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5682 GL, 5687 KB		10. FIELD AND POOL, OR WILDCAT Undesignated	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3-T17S-R25E	
		12. COUNTY OR PARISH Grand	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) Status Report

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Shut in--waiting on pipeline.

18. I hereby certify that the foregoing is true and correct		Consulting	
SIGNED	<i>James G. Routson</i>	TITLE	Petroleum Engineer
(This space for Federal or State office use)		DATE	12/2/85
APPROVED BY		TITLE	C
CONDITIONS OF APPROVAL, IF ANY:		DATE	

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐ RECEIVED

2. NAME OF OPERATOR

Burton W. Hancock

JAN 08 1986

3. ADDRESS OF OPERATOR

1799 Hamilton Avenue, San Jose, CA 95125

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

1094' FNL, 1267' FWL, Section 3

14. PERMIT NO.

43-019-31195

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682 GL, 5687 KB

5. LEASE DESIGNATION AND SERIAL NO.

U-05079

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

3-4

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3-T17S-R25E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) Status Report

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Shut in--waiting on pipeline.

18. I hereby certify that the foregoing is true and correct

SIGNED

James B. Rantson

TITLE

Consulting Petroleum
Engineer

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

February 27, 1986

Burton W. Hancock
1799 Hamilton Ave.
San Jose, CA 95125

Gentlemen:

Re: Winter Camp Unit Federal 3-4 Well - Sec. 3, T. 17S, R. 25E
Grand County, Utah - API 43-019-31195

A review of our records indicates that a copy of the GR-CBL-VDL log, which was run on the referenced well, as indicated on the well completion report dated December 2, 1985, has not been received. Rule 312, Oil and Gas Conservation General Rules require that copies of well logs be submitted within 90 days of completion of any well.

Please provide a copy of the required log at your earliest convenience, but not later than March 10, 1986.

Respectfully,

Norman C. Stout
Administrative Assistant

ta

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0356/13

Burton W. Hancock

1799 Hamilton Avenue
San Jose, California 95125

RECEIVED
MAR 20 1986

DIVISION OF
OIL, GAS & MINING

March 17, 1986

Mr. Norman C. Stout
Administrative Assistant
State of Utah Natural Resources
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

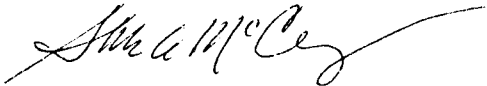
Re: Winter Camp Unit Federal No. 3-4 Well

Dear Mr. Stout:

Enclosed please find Compensated Neutron/Formation Density Log, for the referenced well in Grand County, Utah, per your request of February 27, 1986.

Please advise promptly if this is not the log you needed. Thank you and I apologize for any inconvenience this delay may have caused.

Yours very truly,



Sharon A. McCray
BURTON W. HANCOCK

ENC.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 25, 1986

Burton W. Hancock
1799 Hamilton Ave.
San Jose, California 95125

Gentlemen:

Re: Well No. Winter Camp Unit Federal #3-4 - Sec. 3, T. 17S, R. 25E
Grand County, Utah - API No. 43-019-31195

A review of our records indicates that a copy of the CBL (Cement Bond Log) which was run on the referenced well as indicated on the Well Completion Report dated December 2, 1986 has not been received.

Please provide a copy of the required log at your earliest convenience, and thank's for your response of March 17, 1986 (copy enclosed).

Respectfully,

Norman C. Stout
Administrative Assistant

ts

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0413/10

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

080612

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-05079

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

3-4

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3-T17S-R25E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Burton W. Hancock

3. ADDRESS OF OPERATOR

1799 Hamilton Avenue, San Jose, CA 95125

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

1094' FNL, 1267' FWL, Section 3

14. PERMIT NO.

43-019-31195

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682 GL, 5687 KB

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

☐
☐
☐
☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Status Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

☐
☐
☐
☒

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Shut in--waiting on pipeline.

RECEIVED

AUG 04 1986

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson
James G. Routson

TITLE

Consulting Petroleum
Engineer

DATE

7/31/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

LONE MOUNTAIN PRODUCTION COMPANY

P.O. Box 3394
408 Petroleum Building
Billings, Montana 59103-3394
(406) 245-5077

RECEIVED
AUG 28 1986

**DIVISION OF
OIL, GAS & MINING**

August 26, 1986

082846

43-0A-31195

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

ATTN: Norm Stout

Dear Mr. Stout:

Enclosed is a copy of the cement bond log (GR-CBL-VDL log) you recently requested of Burton W. Hancock for the Federal No. 3-4 Well located in Section 3-T17S-R25E, Grand County, Utah.

Very truly yours,

LONE MOUNTAIN PRODUCTION COMPANY



James G. Routson

JGR:bp

Enclosure

cc: Burton W. Hancock

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other Instructions
verse side)

101325

Expires August 31, 1985
5. LEASE DESIGNATION AND SERIAL NO.

U-05079

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Burton W. Hancock	8. FARM OR LEASE NAME Federal
3. ADDRESS OF OPERATOR 1799 Hamilton Avenue, San Jose, CA 95125	9. WELL NO. 3-4
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1094' FNL, 1267' FWL, Section 3	10. FIELD AND POOL, OR WILDCAT Bar-X
11. SEC., T., R., W., OR N.E.R. AND SURVEY OR AREA NW 1/4 NW 1/4 Sec. 3-T17S-R25E	12. COUNTY OR PARISH Grand
13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	FULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

First delivered to Mesa Pipeline 10/9/86 at 11:50 A.M. Verbal notification phoned to Greg Noble, BLM, Moab District Office at 8:39 A.M. on 10/10/86.

RECEIVED
OCT 14 1986

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James R. Rantson

TITLE

Consulting
Petroleum Engineer

DATE

10/10/86

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

1-5
r 1983)
y 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau for 1001-011
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-05079

PGW

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

041603

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

3-4

10. FIELD AND POOL, OR WILDCAT

Bar-X

11. SEC., T., R., N., OR BLK. AND
SURVEY OR AREA

NW¼NW¼ Sec. 3-T17S-R25E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐
2. NAME OF OPERATOR
Lone Mountain Production Company
3. ADDRESS OF OPERATOR
408 Petroleum Building, P.O. Box 3394, Billings, Montana 59103
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1094' FNL, 1267' FWL, Section 3

14. PERMIT NO.

43-019-31195

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682' GL, 5687' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

Change of Operator

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Effective immediately, Lone Mountain Production Company has become the Operator of this well.

Designation of Successor Operator forms are attached.

RECEIVED
APR 08 1987

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James R. Rouben

TITLE

Petroleum Engineer

DATE

February 25, 1987

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

03/17/1999

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS

CAROLYN GEORGE
LONE MTN PRODUCTION CO
PO BOX 3394
BILLINGS, MT 59103-3394

UTAH ACCOUNT NUMBER: N7210

REPORT PERIOD (MONTH/YEAR): 2 / 1999

RECEIVED
APR 7 1999
DIV. OF OIL, GAS & MININGAMENDED REPORT ☐ (Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
UTAH STATE #1			DKTA	S	GW	0			
4301930758	400	16S 25E 32							
UTAH STATE #2			MRSN	P	GW	28		1386	
4301930759	405	16S 25E 32							
BAR X #3			DK-MR	P	GW	28		2034	
4301915022	455	17S 25E 12							
BAR X 6			DK-MR	P	GW	28		2399	
4301915025	455	17S 25E 11							
CRITTENDEN 1			DK-MR	P	GW	28		3776	
4301915027	455	17S 25E 12							
BAR X #8			DK-MR	P	GW	28		2452	
4301930494	455	17S 25E 11							
BAR X UNIT #13			MRSN	P	GW	28		2669	
4301930598	455	17S 26E 07							
FEDERAL 17			DK-MR	P	GW	28		8033	
4301931306	455	17S 25E 11							
FEDERAL NO. 20			DK-MR	P	GW	28		1127	
4301931337	455	17S 25E 12							
BAR-X FEDERAL 23			DK-MR	P	GW	28		20153	
4301931347	455	17S 25E 01							
FEDERAL 21			DK-MR	P	GW	28		3571	
4301931352	455	17S 25E 12							
WINTER CAMP UNIT FEDERAL 3-4			DKTA	P	GW	28		2042	
4301931195	4691	17S 25E 03							
WESTBIT 2			WSTC	P	GW	28		2563	
4301915048	5220	16S 25E 09							

TOTALS

52205

COMMENTS : please change entity #4691 to say Federal 3-4

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 4/1/99

Name and Signature: Carolyn George Carolyn George

Telephone Number: (406) 245-5077

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Burton W. Hancock

3. ADDRESS OF OPERATOR

1799 Hamilton Ave., San Jose, CA

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1094 FNL, 1267 FWL, Section 3 NW/4 NW

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20 miles northwest of Mack, Colorado

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1094'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

5850'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682 GL, 5693 KB

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" new	24# H-40STC	300'	175 sacks Class "G" (to surface)
7-7/8"	4-1/2" new	10.5# J-55LTC	4400'	175 sacks RFC

1. Surface formation is the Mancos.
 2. Anticipated geologic markers are: Frontier 3390'; Dakota 3793'; Morrison 4000'; Salt Wash 4295'.
 3. Gas is anticipated in the Dakota, Morrison and in the Salt Wash. No oil or other minerals are anticipated. No water sands are expected.
 4. Proposed casing program: See Item No. 23 above.
 5. Pressure control equipment: See attached well control plan and schematic of drilling contractor's BOP stack. BOP's will be tested before drilling out from under surface casing and checked daily.
 6. Air or mist drilling will be used to drill the surface hole unless water is encountered. If water is encountered, chemical-gel type mud will be used. The well will be air drilled from under surface casing to total depth.
 7. Auxiliary equipment: See well control plan.
- (continued on page 2)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James D. Burton

TITLE

Consulting

Petroleum Engineer

DATE

July 9, 1985

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE

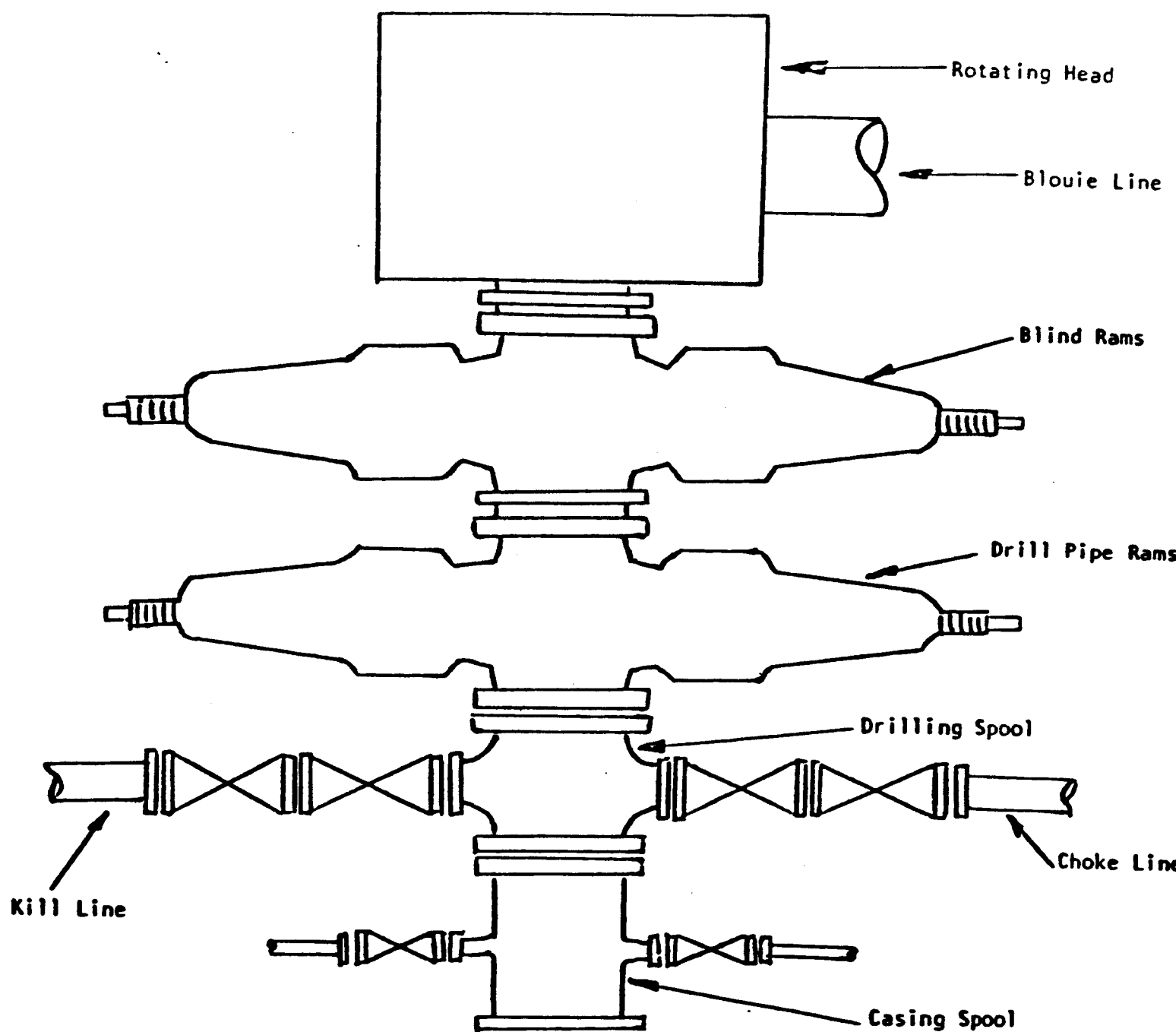
BY: John R. Bays

WELL SPACING: Unit Well A3

*See Instructions On Reverse Side

Air drilled wells using 900 series wellhead equipment.

Interval from 300' to total depth.



SURFACE USE PROGRAM

Burton W. Hancock
Federal Well#3-4
NW¼NW¼ Sec.3-T17S-R25E, S.L.B.&M.
GRAND COUNTY, UTAH

1. Existing Roads

See Vicinity and Topo-Access Maps. This proposed well is in the bottom of Bitter Creek Canyon about 3½ miles south of the Arco-San Arroyo Gas Plant. This well is reached by going 9.5 miles west of Mack, Colorado on Old Highway 6&50 to Mesa County 2 road, then turn right and go 3.9 miles to the Colorado-Utah State line (fence); then go northwesternly 8.4 miles on the main Bittercreek San Arroyo Gas Plant road to the location.

All roads used for access are county roads. Burton W. Hancock will help maintain the gravel and dirt portions of these roads in conjunction with the county and other oil and gas operators in the area.

2. Access Roads to be Constructed

The 100' of new access road will be incorporated into the south-east edge of the location. The road will ramp over the northwest Pipeline Corporation pipeline.

3. Location of Existing Wells

See Map No. 3. There are 6 producing wells and 2 shut-in wells within 1 mile of Federal No.3-4.

4. Location of Existing and/or Proposed Facilities if Well is Productive

(a) On Well Pad - See Plat No.4. All Facilities will be painted dark green to blend with the environment.

(b) Off Well Pad - See Facilities Map

5. Location and Type of Water Supply

The water source for this well is West Salt Creek. The pickup point is on Old Highway 6&50 approximately 2.5 miles west of Mack, Colorado.

6. Source of Construction Materials

No construction materials will be used other than native materials. Soil from cuts will be used in fills. No outside material will be brought in.

Application for Permit to Drill, Deepen, or Plug Back

3-4

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 3-T17S-R25E

Grand County, Utah

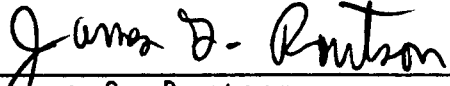
Lease U-05079

Page 2

8. The logging program will consist of a DIL log from TD to base of surface casing, and GR-FDC-CNL logs from TD to above the Frontier. No cores or DST's are planned.
9. No abnormal pressures or temperatures are anticipated. No poisonous gas is anticipated.
10. Anticipated spud date is September 3, 1985. Completion operations should commence within 30 days of rig release.
11. Survey plats are attached.
12. The gas is dedicated to Northwest Pipeline Corporation.
13. The well is being drilled as a Wintercamp Unit development well.
14. Burton W. Hancock is the Operator of the Wintercamp Unit.
15. Hancock is bonded in the State of Utah.

Burton W. Hancock
Federal No. 3-4
WELL CONTROL PLAN

1. Surface Casing: 8-5/8" O.D., 24#/ft., Grade H-40, ST&C, set at 300' or deeper, cemented with pump and plug method back to the surface or bottom of cellar.
2. Casinghead Flange: 8-5/8" x 8"-900 Series casinghead with two 2" 2000 psi L.P. outlets.
3. Intermediate Casing: None
4. Blowout Preventor: An 8" 3000 psig W.P. double gate hydraulic shaffer BOP (or equivalent) with drill rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi W.P. A Grant rotating head will be used while air and mist drilling. BOP's will be worked daily. Blind rams will be checked during trips. BOP's will be tested to 1000 psi prior to drilling shoe joint on surface casing.
5. Auxiliary Equipment: (a) Drill pipe floats will be allowed at contractor's discretion. (b) Visual monitoring of air returns will be maintained. (c) Upper kelly cock will be used. (d) Stabbing valve will be kept on floor.
6. Anticipated bottom hole pressure is less than 800 psi at 3793 or a gradient of .211 psi/ft or less. No abnormal temperatures or hydrogen sulfide gas are anticipated.


James G. Routson
Petroleum Engineer

7. Methods for Handling Waste Disposal

Cuttings will be buried in the reserve pit at clean up. Garbage and other waste material will be contained in a trash cage. This cage will be dumped at an approved sanitary land fill. Human waste will be disposed of in chemically treated sanitary pits.

Drilling fluids will be contained in the reserve pit and left to evaporate. Any fluids produced during testing operations will be collected in a test tank. If a test tank is not available, the fluids will be contained in the reserve pit. Any spills of oil, gas, salt water or noxious fluid will be cleaned up and removed.

If the well is productive, produced water will be disposed of on site for 30 days only, or 90 days with the permission of the District Manager. After that time, application will be made for approval of permanent disposal method in compliance with old MMS Order NTL-2B, and the rules and regulations of the State of Utah.

8. Ancillary Facilities:

No ancillary facilities are planned.

9. Wellsite Layout

See Plat #2 - Pit and Pad Layout

See Plat #2A - Cross Sections of Pit and Pad

See Plat #3 - Rig Layout

The location will be constructed large enough to accomodate the drilling rig and associated equipment with allowance made for future completion and fracturing equipment.

The location construction will begin by stripping and stockpiling all available (4-6") topsoil. The stockpile will be along the southside of the location.

The reserve pit will be constructed along the southside of the well pad. The pit will be fenced on three sides during drilling and closed on the fourth side at rig release. The fence will be maintained through completion and while the pit area is drying.

10. Plans for Reclamation of the Surface

If the well is productive, the reserve pit will be allowed to dry and then backfilled. All of the area not necessary for production will be resloped, covered with available topsoil and revegetated using a seed formula supplied by the BLM.

If the well is abandoned, the entire area of disturbance will be returned to a reasonable contour approximating the topography of the surrounding area. The topsoil will be distributed over the recontoured area and revegetated using the appropriate seed formula.

10. (continued)

Clean-up will begin after completion rig release and resloping should be completed by the Fall of 1985.

11. Surface Ownership

All lands involving new construction are Federal lands.

12. Other Information

The well site is on a small bench in the bottom of Bittercreek. The vegetation is sparse and includes juniper, sagebrush, western wheatgrass, Indian rice grass and a few annual plants.

13. Lessee's of Operator's Representatives and Certification

James G. Routson
Consulting Petroleum Engineer
P.O. Box 3394
Billings, Montana 59103
Office Phone: 406-245-5077
Home Phone: 406-245-8797

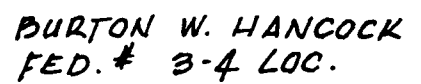
Burton W. Hancock
1799 Hamilton Avenue
San Jose, CA 95125
Office Phone: 408-264-3114

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Lone Mountain Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

July 9, 1985
Date

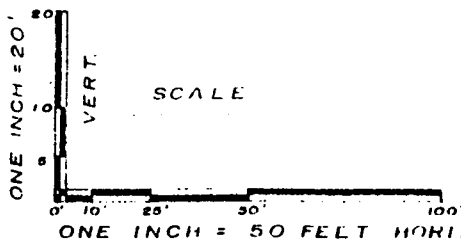
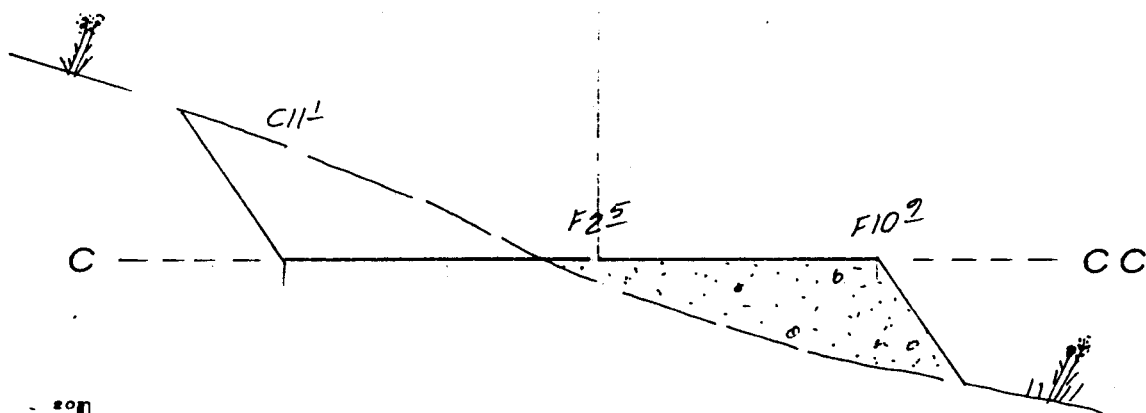
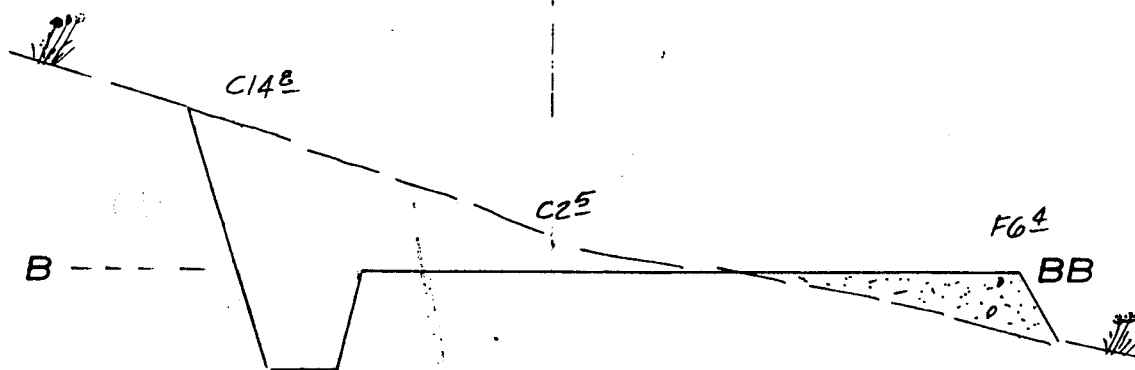
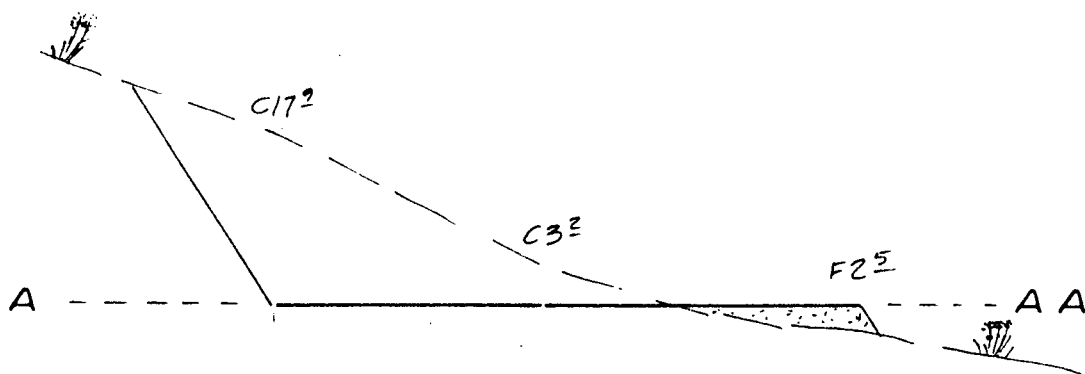
James G. Routson

SET 6' WHEEL POST WITH
REBAR SET ALONGSIDE.



PLAT # 2A

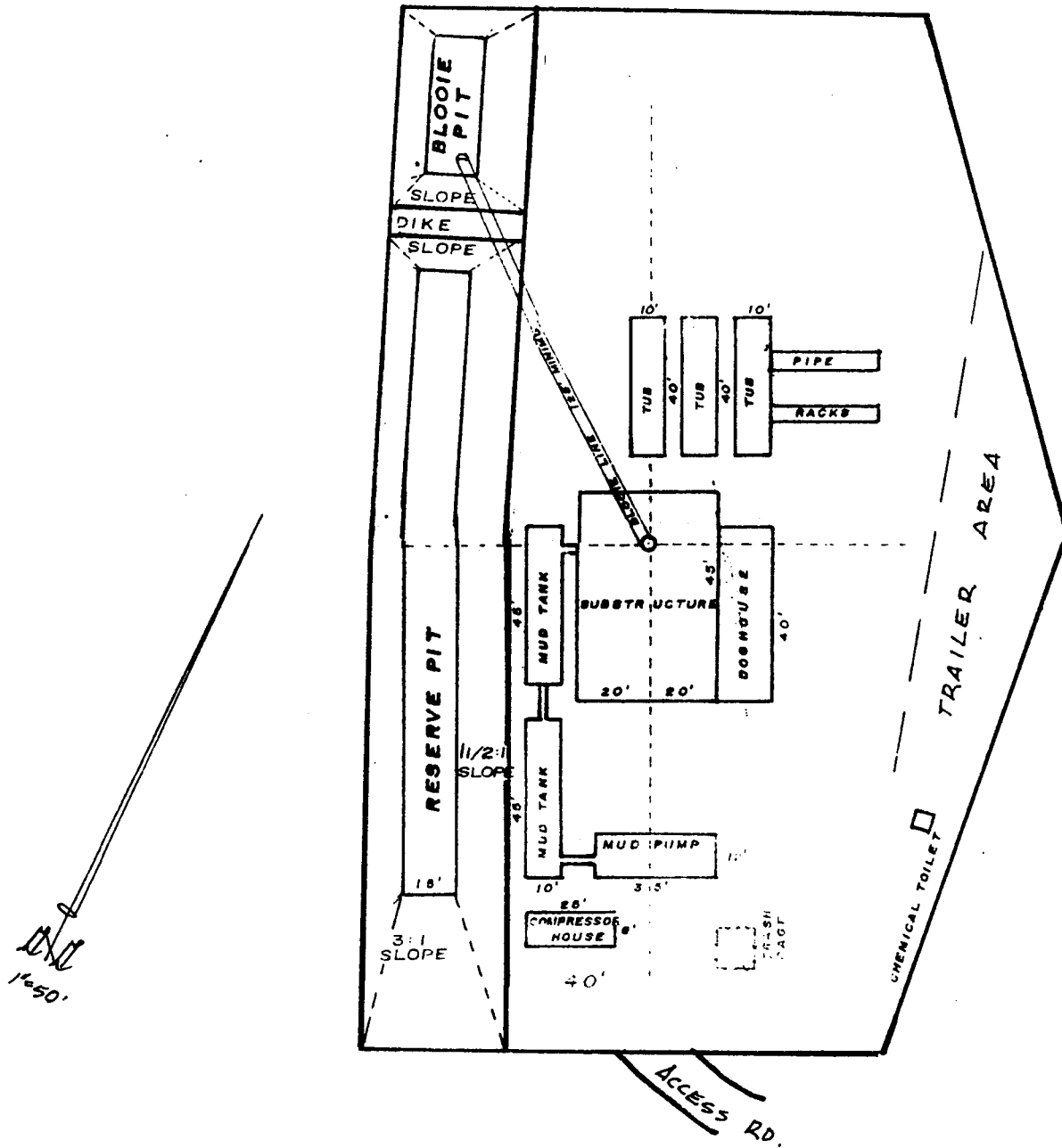
CROSS-SECTIONS
OF PIT & PAD



BURTON W HANCOCK
FED. # 3-4 LOCATION

PREPARED BY ENERGY SURVEYS & ENGINEERING CORP.

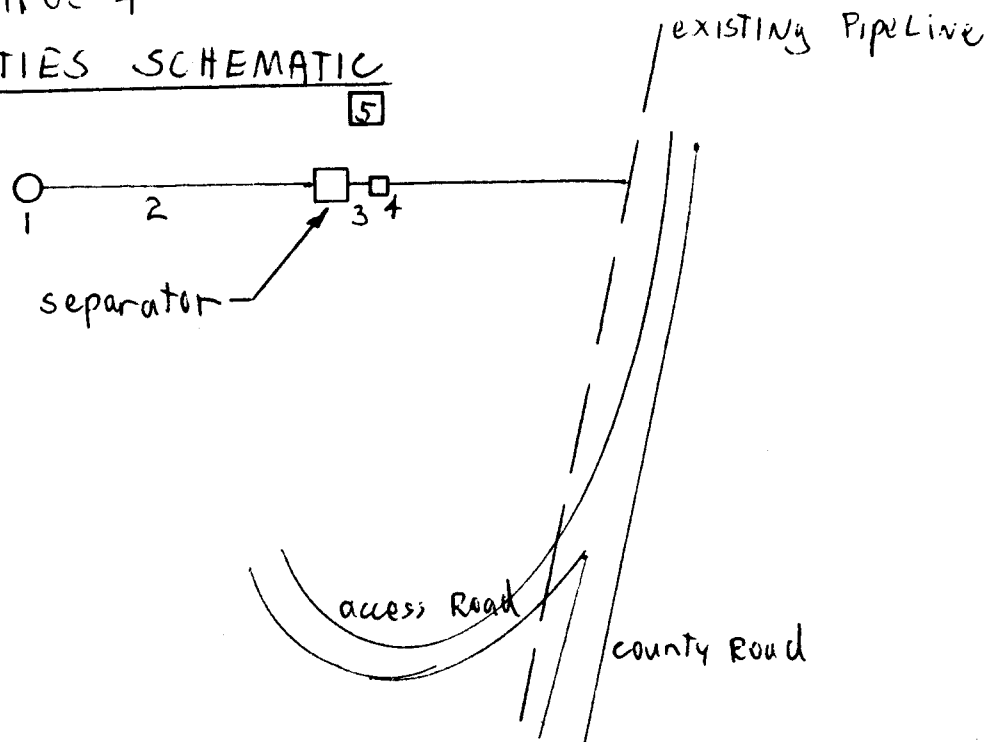
PLAT # 3 RIG LAYOUT



BURTON W. HANCOCK
FED. # 3-4 LOCATION

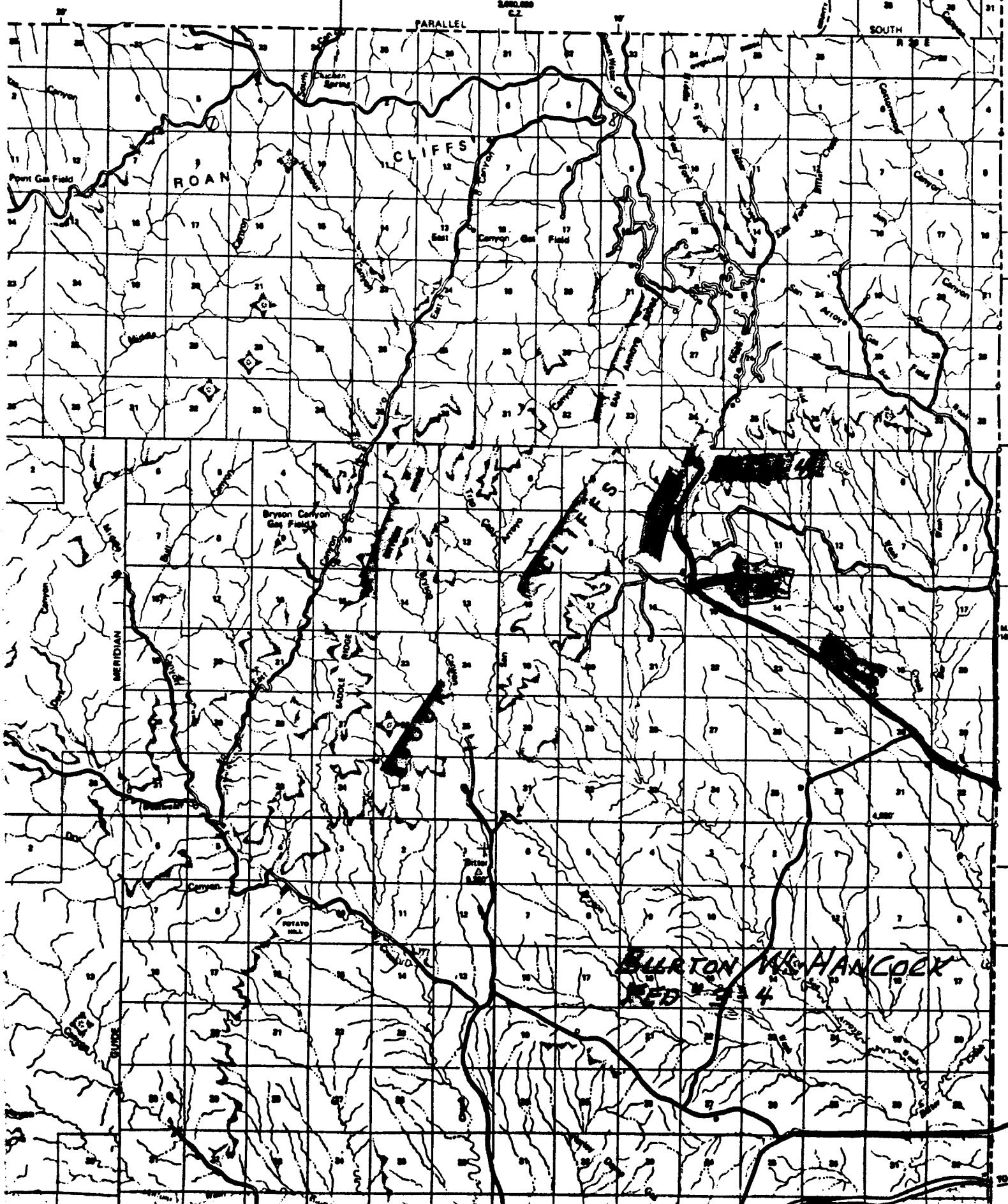
PLAT NO. 4

FACILITIES SCHEMATIC

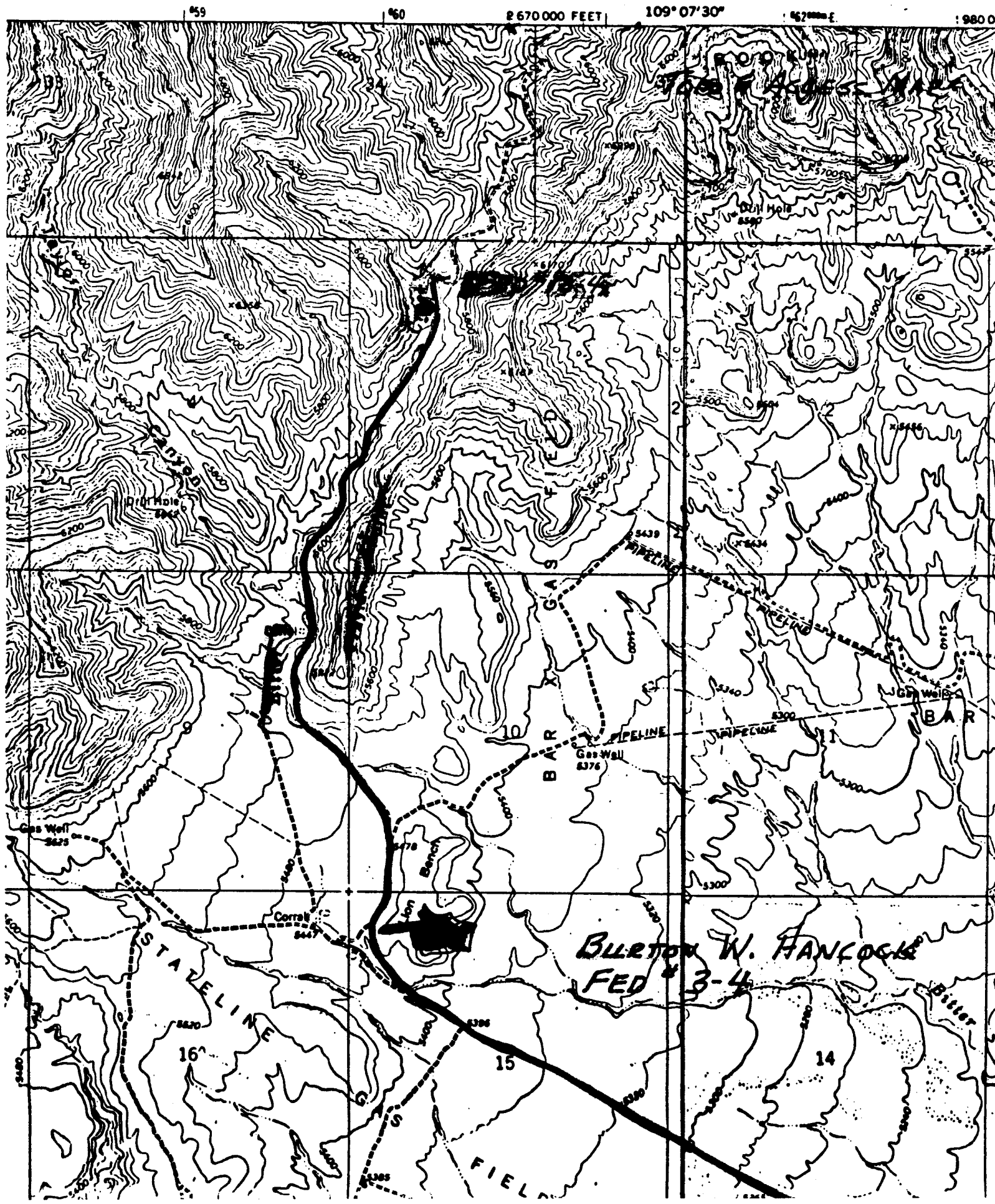


1. Wellhead will be an 8-5/8" Larkin Fig. 92 or equivalent. Tubing head will be a 4 1/2" x 6"-900 Series with two 2" 3000 psi screwed valves. Tree will be 2" screwed x 2000 psi W.P.
2. Line between wellhead and separator will be approximately 100 feet in length and constructed of 2-3/8" .218 wall seamless, welded, wrapped and buried approximately 5 feet deep.
3. Line between separator and meter will be 4" or 4.028 OD seamless, welded, coated, wrapped and buried, and will be approximately 25 feet in length.
4. Meter run will be American 2" run, or equivalent, 1000 psi static rating, 100" of water differential rating.
5. Pit will be 10'x 10', enclosed by dikes and fenced.

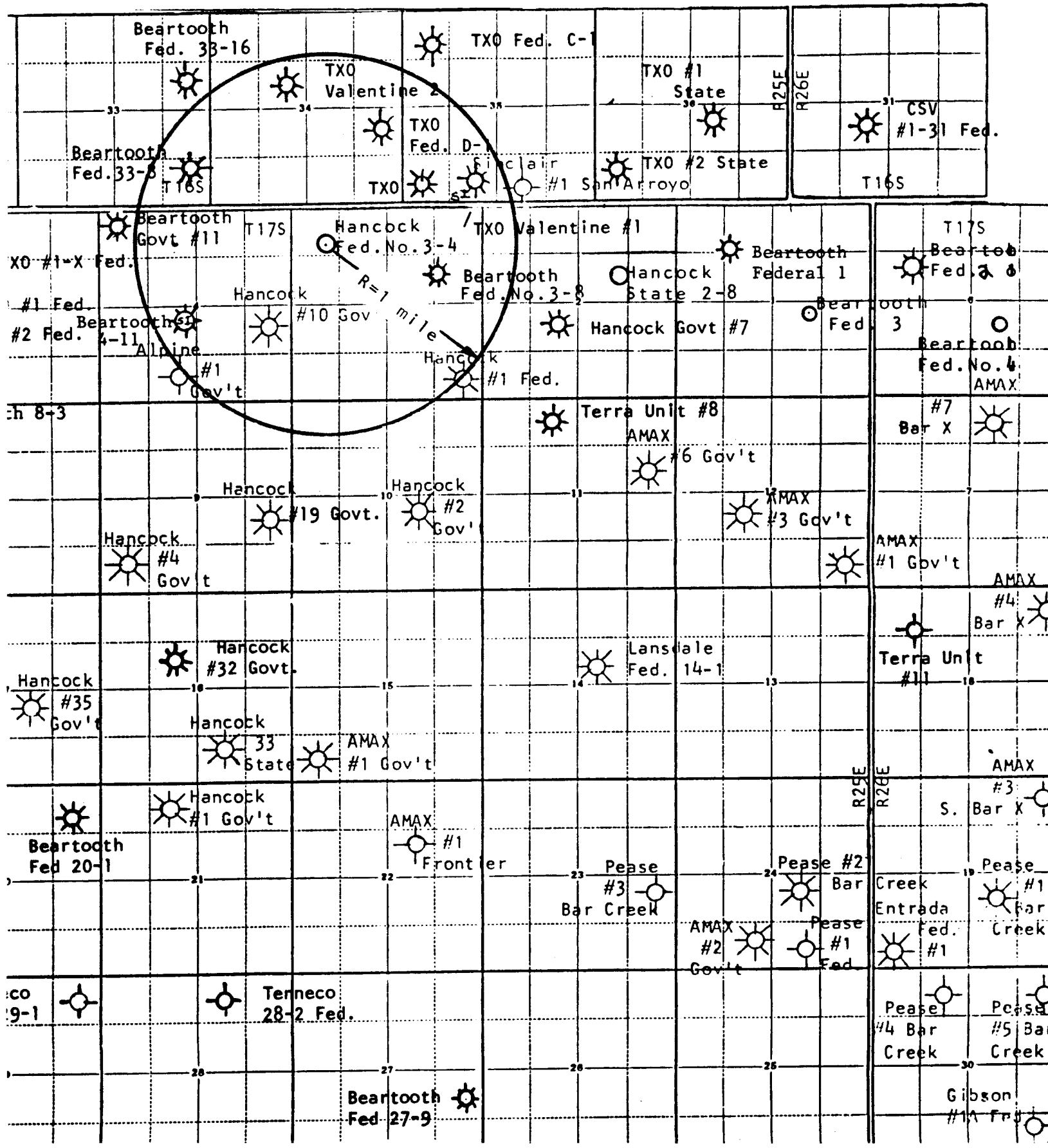
VICINITY MAP



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Township 16, 17, 18S, Range 24, 25, 26E, County Grand, State Utah



OPERATOR Burton W. Hancock DATE 7-16-85
WELL NAME Winter Camp Unit
Federal 3-4
SEC NW NW 3 T 17S R 25E COUNTY Grand

43-019-3195
API NUMBER

Prod.
TYPE OF LEASE

CHECK OFF:



PLAT



BOND



NEAREST WELL



LEASE



FIELD



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

~~Not valid as an LAD~~
Water - Mack Co.

APPROVAL LETTER:

SPACING:



A-3

Wintercamp
UNIT



C-3-a

CAUSE NO. & DATE



C-3-b



C-3-c

STIPULATIONS:



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 29, 1985

Burton W. Hancock
1799 Hamilton Avenue
San Jose, California 95125

Gentlemen:

Re: Well No. Winter Camp Unit Federal 3-4 - NW NW Sec. 3, T. 17S, R. 25E
1094' FNL, 1267' FWL - Grand County, Utah

Approval to drill the above-referenced gas well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-31195.

Sincerely,

R. J. Firth

Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

REC'D MDO JUL 11 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Burton W. Hancock

3. ADDRESS OF OPERATOR

1799 Hamilton Ave., San Jose, CA 95125

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)

At surface

1094 FNL, 1267 FWL, Section 3

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20 miles northwest of Mack, Colorado

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1094'

16. NO. OF ACRES IN LEASE

633.07

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

5850'

19. PROPOSED DEPTH

4400

17. NO. OF ACRES ASSIGNED
TO THIS WELL

NA, well is in a Federal unit

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682 GL, 5693 KB

22. APPROX. DATE WORK WILL START*

September 3, 1985

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" new	24# H-40STC	300'	175 sacks Class "G" (to surface)
7-7/8"	4-1/2" new	10.5# J-55LTC	4400'	175 sacks RFC

RECEIVED

AUG 08 1985

DIVISION OF OIL
GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James D. Bouton

TITLE

Consulting
Petroleum Engineer

DATE

July 9, 1985

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

/s/ GENE NODINE

TITLE

DISTRICT MANAGER

DATE

08 AUG 1985

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

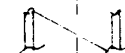
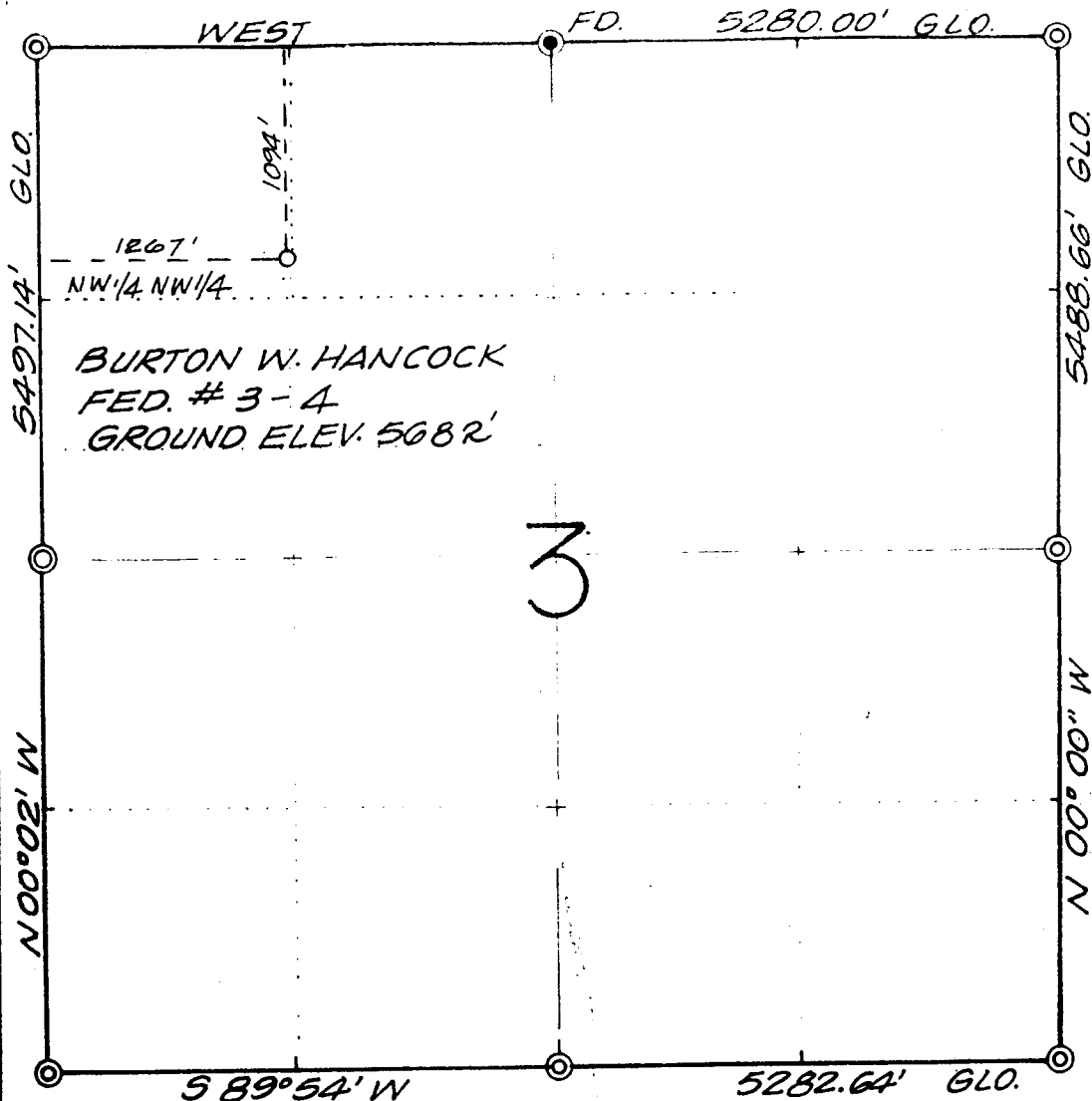
*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

State of Utah - D06M

FLARING OR VENTING OF
GAS IS SUBJECT OF NTL 4-A
DATED 1/1/80

SEC. 3, T.17 S., R.25 E. OF THE SLB & M



SCALE



LEGEND

- ⊙ STANDARD LOCATION OF GLO SECTION CORNERS
- GLO CORNERS FOUND
- WELL LOCATION STAKED.

REFERENCE DOCUMENTS

1926 GLO PLAT

BRYSON CANYON
QUADRANGLE, USGS

BASIS OF BEARING - WEST LINE OF SEC. 10

THIS WELL LOCATION PLAT WAS PREPARED FOR BURTON W. HANCOCK
TO LOCATE THE FED # 3-4, 1094' F.N.L. &
1267' F.W.L. IN THE NW 1/4 NW 1/4, OF SECTION 3, T.17 S., R.25 E
OF THE SLB & M.P.M. GRAND COUNTY, UTAH

SURVEYOR'S CERTIFICATE

I, LARRY D BECKER A REGISTERED LAND SURVEYOR IN
THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS
SURVEY WAS MADE UNDER MY DIRECT SUPERVISION
AND THAT THIS PLAT REPRESENTS SAID SURVEY.

Larry D Becker

SURVEYED	5-22-85	ENERGY SURVEYS & ENGINEERING CORP.	715 HORIZON DRIVE, SUITE 330 GRAND JUNCTION, CO. 81501 (303) 945-7221	SCALE 1" = 1000'
DRAWN	6-1-85			JOB NO.
CHECKED	6-1-85			SHEET OF

Burton W. Hancock
Well No. Wintercamp Unit Federal 3-4
Sec. 3, T. 17 S., R. 25 E.
Grand County, Utah
Lease U-05079

CONDITIONS OF APPROVAL

A. DRILLING PROGRAM

A backup source capable of closing the B.O.P.'s in case of a primary source failure will be available.

All pressure tests on the B.O.P.E. will be recorded in the driller's log.

Both casing strings will be tested to at least 1000 psi. This will be recorded in the driller's log.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Order 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to the field representative to insure compliance.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Office. If operations are to be suspended, prior approval of the District Office will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the Area Office within a minimum of 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within 24 hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Order No. 1 this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continued each month until the well is plugged and abandoned. This report will be sent to the District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Area Office in accordance with requirements of NTL-3A.

If a replacement rig is needed for completion operations, A Sundry Notice (Form 3160-5) to that effect will be filed for prior approval from the District Office, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations verbal approval to bring on a replacement rig will be approved through the District Office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

If the well is to be completed for production the Area Office is to be contacted in order to set up a pre-production conference. When the well is placed in a producing status the District Office is to be notified by telegram or other written communication within five working days.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

No well abandonment operations will be commenced without the prior approval of the District Office. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Office. A Subsequent Report of Abandonment (Form 3160-5) will be sent to the District Office within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Office, or the appropriate surface managing agency. Upon completion of approved plugging, a dry hole marker will be erected in accordance with 43 CFR 3162.6. The top of the marker will be closed or capped. The following minimum information will be permanently placed on the marker; "Fed" or "Ind", as applicable, "Lease number", "Well number", location of well by 1/4 1/4 section, township, and range.

B. SURFACE USE PROGRAM

The operator will contact the Grand Resource Area at (801) 259-8193, forty-eight (48) hours prior to beginning any dirt work on this location.

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance.

- Immediately upon completion of drilling, the location, and surrounding areas will be cleared of all remaining debris, materials, trash, and junk not required for production.

Produced waste water will be confined to a pit.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter along with any other sections occurring on the pad. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

The operator or his contractor will notify the Grand Resource Area at (801) 259-8193 forty-eight (48) hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

The following seed mixture will be used:

<u>Species</u>		<u>lbs/acre</u>
<u>Grasses</u>		
Sporobolus airoides	Alkali sacaton	1
Sporobolus cryptandrus	Sand dropseed	1
Agropyron smithii	Western wheatgrass	1
<u>Forbs</u>		
Melilotus officinalis	Yellow sweetclover	1/2
Helianthus annuus	Common sunflower (Kansas sunflower)	1/2
<u>Shrubs</u>		
Eurotia lanata	Winterfat (Whitesage)	1
Atriplex canescens	Fourwing saltbush	1
		6 lbs/acre

Broadcast seed will be applied at double the above rate.

Final location release will be issued when the seeding is shown to be successful (when perennial vegetation is established).

Your contact with the District Office is:

Greg Noble, Petroleum Engineer Office Phone: (801)259-6111
Home Phone: _____

District Address:

82 East Dogwood, P.O. Box 970
Moab, Utah 84532

Your contact with the Grand Resource Area Office is:

Jeff Robbins Office Phone: (801)259-8193
Home Phone: (801)259-7964

Area Office Address:

Sand Flats Road, P.O. Box M
Moab, Utah 84532

Burton Hancock

RECEIVED

SEP 19 1985

9/6/85
(Date)

**DIVISION OF OIL
GAS & MINING**

DRILLING PROGNOSIS

Federal No. 3-4
NW $\frac{1}{4}$ NW $\frac{1}{4}$ (1094' FNL, 1267' FWL) Section 3-T17S-R25E
Wintercamp Unit
Grand County, Utah

Elevations: 5682 G.L.
5693 K.B.

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Mancos	Surface	
Frontier	3390'	+ 2303
Dakota Silt	3710	+ 1983
Dakota	3793'	+ 1900
Morrison	4000'	+ 1693
Salt Wash	4295'	+ 1398
Total Depth	4400	+ 1293

CONTRACTOR

Name CARMACK WELL SERVICE, INC.
Address 2154 Highway 6450, Grand Junction, Colorado 81505
Office Phone (303) 245-2500
Rig No. 20 Toolpusher Chris Carmack
Home Phone (303) 245-8305 Mobile or Rig Phone (303) 245-3660
Unit 5460

WELL SITE GEOLOGIST

Name Rocky Mountain Geo-Engineering (Bill Nagel)
Address 2450 Industrial Blvd., Grand Junction, CO 81501
Office Phone 303/243-3044 Home Phone 303/242-4160

Geologist will be on location in sufficient time to be oriented prior to drilling of the Frontier. Geologist will make a written sample description and prepare a drilling time log from 3000'. Geologist will make daily phone calls to Lone Mountain Production Company's office by 8:00 A.M. Mountain Time. When shows are encountered, a representative of Lone Mountain Production Company will be contacted.

SAMPLES

30 ' samples under surface to 3350'.
15 ' samples from 3350' to T.D..

Shorter intervals at discretion of well site Geologist.

A set of samples will be delivered or sent to Saved by Rocky Mountain
for one year.

DRILL STEM TESTING

No DST will be run.

Any gas encountered will be measured using a flow proper at the end of a two-inch line which is tied to BOP below the pipe rams.

Flare to be burning at end of blowie line at all times.

DRILLING PROGRAM

Hole Size	Casing Program			
	Size	Weight	Depth	Cement
12-1/4" to 300'	8-5/8"	H-40 STC 24 #	300'	Class "G" to surf. 175 sx
7-7/8" to T.D.	4-1/2"	J-55 LTC 10.5 #	T.D.	RFC 175 sx
_____ to _____	_____"	_____ #	_____	_____

MUD PROGRAM

Type	Depth		Characteristics			
	From	To	Weight	Visc.	% Oil	W.L.
Air or Mist	0'	300'				
Air	300'	T.D.				
At T.D.			8.7	35-40	0	15
Note: If water is encountered, chemical-gel type mud will be used.						

CONTRACT DEPTH

4500 feet.

STRAP-OUT

Contractor to strap pipe prior to any coring, testing, logging or before reaching the depth of 3700 feet.

DEVIATION SPECIFICATIONS

Surface Pipe set with 1° or less.
Maximum change of 1° per 100', not to exceed 10° at T.D.

TESTING B.O.P.

Test to 1000 psig before drilling shoe joint on surface casing.
Work pipe rams daily, blind rams on trips.

LOGGING PROGRAM

GR-SP-DIL: T.D. to base of surface casing.

GR-FDC-CNL: T.D. to above Frontier formation.

LONE MOUNTAIN PRODUCTION COMPANY'S REPRESENTATIVES

Office: P.O. Box 3394
408 Petroleum Building
Billings, Montana 59103

Office Phone: 406/245-5077

Glen Ross, Box 1822, Roosevelt UT 84066 (Home: 801/353-4203)

James G. Routson

Home Phone: 406/245-8797

Thomas M. Hauptman

Home Phone: 406/652-4729

Home Phone: _____

Home Phone: _____

Home Phone: _____

DISTRIBUTION OF WELL INFORMATION

Attached is a list of participants' addresses and telephone numbers, together with the number of copies of all well information to be received by each.

The Geologist and Company Man will have the service companies make direct distribution of material when possible.

REPORTS REQUIRED

- 1) Copy of daily drilling report.
- 2) Copy of drilling time charts (Geolograph Charts).
- 3) Deviation charts

Contractor or Company Man will make daily phone calls to Lone Mountain Production Company's office by 8:00 A.M., Mountain Time, during regular office hours or to Lone Mountain Production Company's representative as shown above.

PARTICIPANTS

Federal No. 3-4

(Well Name)

<u>Name and Address</u>	<u>Office Phone</u>	<u>After Hours, Contact:</u>	<u>Home Phone</u>
Burton W. Hancock 1799 Hamilton Avenue San Jose, CA 95125	(408) 264-3114	Burton W. Hancock	(408) 370-2394
LONE MOUNTAIN PRODUCTION COMPANY P.O. Box 3394 408 Petroleum Building Billings, MT 59103	(406) 245-5077	James G. Routson Thomas M. Hauptman	(406) 245-8797 (406) 652-4729

Bureau of Land Management
Box 970
Moab, UT 84532

(801) 259-6111

Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

(801) 533-5771

DISTRIBUTION OF INFORMATION

Federal No. 3-4

(Well)

Name & Address	Open Hole Logs		Cased Hole Logs	Core, Fluid Analysis, DST Charts	Geol. Report	Permit, Forms, Prognosis
	Field	Final				
Burton W. Hancock 1799 Hamilton Avenue San Jose, CA 95125	4	4	4	4	4	4
Burton W. Hancock Stateline Natural Gas 1048 Independent Avenue Suite 205-A Grand Junction, CO 81505	1	1	1	1	1	1
LONE MOUNTAIN PRODUCTION COMPANY P.O. Box 3394 408 Petroleum Building Billings, MT 59103	2	2	2	2	2	2
Burkhalter Engineering ATTN: Ralph Snow Suite 330 715 Horizon Drive Grand Junction, CO 81501	1		1			
Bureau of Land Management Box 970 Moab, UT 84532	2	2	2	2	2	2
Division of Oil, Gas & Mining 4241 State Office Building Salt Lake City, UT 84114	1	1	1	1	1	1

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

API #43-019-31195

NAME OF COMPANY: BURTON HANCOCKWELL NAME: WINTER CAMP UNIT FEDERAL 3-4SECTION NW NW 3 TOWNSHIP 17S RANGE 25E COUNTY GrandDRILLING CONTRACTOR Carmack Well ServiceRIG # 20SPUDDED: DATE 10-2-85TIME 2:00 PMHOW RotaryDRILLING WILL COMMENCE REPORTED BY Bonnie PaulTELEPHONE # 406-245-5077DATE 10-2-85 SIGNED AS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

2

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a well.
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-05079	
2. NAME OF OPERATOR BURTON W. HANCOCK		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1977 Hamilton Avenue, San Jose, California 95125		7. UNIT AGREEMENT NAME Wintercamp	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1094' FNL, 1267' FWL (NW $\frac{1}{4}$ NW $\frac{1}{4}$)		8. FARM OR LEASE NAME Federal	
14. PERMIT NO. 43-019-31195		9. WELL NO. 3-4	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5682 GL, 5686 KB		10. FIELD AND POOL, OR WILDCAT Undesignated	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3-T17S-R25E	
		12. COUNTY OR PARISH Grand	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Status Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

KB correction from original APD to 5686'.

Spudded 12 $\frac{1}{4}$ " hole at 2:00 P.M., 10/2/85. Carmack Well Service Rig No. 20.

18. I hereby certify that the foregoing is true and correct

SIGNED

James B. Rantzen

TITLE

Consulting

Petroleum Engineer

DATE

10/3/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

2

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back a well. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED

OCT 15 1985

DIVISION OF OIL
& GAS MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-05079

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Winter Camp

8. FARM OR LEASE NAME

Federal

9. WELL NO.

3-4

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 3-T17S-R25E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

14. PERMIT NO.

API #43 019 31195

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682 GL, 5687 KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Status Report

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

KB corrected from previous reports.

Drilled 12 $\frac{1}{4}$ " hole to 330'. Ran 8-5/8", 24#, J-55 casing to 326'. Cemented with 175 sx Class H, 3% CaCl₂. Good cement returns to surface.

Drilled 7-7/8" hole to 4400'. Ran 4 $\frac{1}{2}$ ", 10.5#, J-55 Casing to 4259'. PBD 4217'. Cemented with 275 sx Thixotropic cement. Rig released at noon, 10/7/85.

Will move in completion rig about 11/1/85.

Log Tops:	Dakota Silt	3690
	Dakota Sand	3792
	Morrison	4024
	Salt Wash	4309

18. I hereby certify that the foregoing is true and correct

SIGNED

James D. Bouton

TITLE

Consulting
Petroleum Engineer

DATE

10/11/85

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

BURTON W. HANCOCK
FEDERAL 3-4
NW/NW SECTION 3-T17S-R25E
GRAND COUNTY, UTAH

GEOLOGIC REPORT
BY
BILL NAGEL
ROCKY MOUNTAIN GEO-ENGINEERING COMPANY

WELL SUMMARY

OPERATOR: BURTON W. HANCOCK

WELL NAME: FEDERAL #3-4

LOCATION: NW/NW SECTION 3, T17S, R25E
FOOTAGE: 1094' FNL - 1267' FWL

COUNTY: GRAND

STATE: UTAH

AREA: WINTERCAMP UNIT

ELEVATION: 5682 GL - 5687 KB

SPUD DATE: 10/2/85

COMPLETION DATE: 10/6/85

DRILLING ENGINEER: GLENN ROSS

WELLSITE GEOLOGY: ROCKY MOUNTAIN GEO-ENGINEERING COMPANY
GEOLOGIST: BILL NAGEL

DRILLING CONTRACTOR: CARMACK WELL SERVICE, INC.
RIG: RIG #20

TOOL PUSHER: CHRIS CARMACK

HOLE SIZE: 12½" TO 330' - 7 7/8" TO T.D.

CASING RECORD: 8 5/8" TO 326' - 4½" TO T.D.

AIR COMPRESSORS: FRONTIER AIR DRILLING COMPANY

ELECTRIC LOGGING: SCHLUMBERGER

TYPE OF LOGS RUN: DIL-SP-GR, FDC-CNL-GR

OBJECTIVE: DAKOTA, MORRISON

TOTAL DEPTH 4403'

STATUS: RUN 4½" PRODUCTION CASING

BURTON W. HANCOCK
FEDERAL #3-4
NW/NW SECTION 3-T17S-R25E
GRAND COUNTY, UTAH

WELL CHRONOLOGY

1985 DATE	MDNT DEPTH	FTG/ DAY	DAILY OPERATIONS
10/4	330	1842	RUN BLOOIE LINE - RIH & UNLOAD HOLE - DRL CMT - DRY HOLE - DRLG AHEAD - REPAIR SWIVEL - DRLG
10/5	2172	1981	DRLG - TEST WELL - DRLG - MIST UP - DRLG AHEAD
10/6	4153	250	DRLG TO T.D. - MUD UP - CIRC - POOH FOR LOGS

BIT RECORD

WELL NAME: FEDERAL 3-4 ELEVATION: GL 5682' - KB 5687'
CO. NAME: BURTON W. HANCOCK SECTION: 3 - 17S -25E
CONTRACTOR: CARMACK DRLG RIG# 20 CO. & STATE: GRAND, UTAH
SPUD DATE: 10/2/85 T.D. DATE: 10/6/85

[illegible]

BURTON W. HANCOCK
FEDERAL #3-4
NW/NW SECTION 3, T17S, R25E
GRAND COUNTY, UTAH

SAMPLE DESCRIPTIONS

3100-3130	100%	SH dkgy frm blk-pty
3130-3160	100%	SH dkgy frm blk-pty sl slty
3160-3190	100%	SH AA
3190-3220	100%	SH AA
	TR	BENT wh sft pty
3220-3250	100%	SH dkgy frm blk-pty
3250-3280	100%	SH AA
	TR	BENT wh sft pty
3280-3310	100%	SH AA
3310-3340	100%	SH dkgy frm blk-pty
3340-3370	100%	SH AA
3380-3410	100%	SH AA
3410-3440	100%	SH dkgy frm blk-pty
	TR	BENT wh sft pty
3440-3470	100%	SH AA
3470-3500	100%	SH dkgy-blk frm blk-pty
3500-3515	100%	SH blk frm blk-pty
3515-3530	100%	SH AA
	TR	BENT wh sft pty
3530-3545	100%	SH AA
	TR	SS lt brn vfg mcmt msrt sbang-sbrd arg
3545-3560	100%	SH dkgy-blk frm blk-pty
3560-3575	90%	SH AA
	10%	SS clr-lt brn vfg mcmt-uncons sbrd slarg calc
3575-3590	80%	SH dkgy-blk frm blk-pty occ sl slty & sndy
	20%	SS AA
	TR	BENT ltgy-wh yell sft pty
3590-3605	90%	SH AA
	10%	SS ltbrn vfg mcmt-pcmt sbrd sl arg calc
3605-3620	60%	SH dkgy frm blk-pty occ sl sndy
	40%	SS clr-ltgy vfg mcmt m-wsrt sbrd occ glau incl sl arg & slty calc
3620-3635	60%	SS ltgy-mgy vfg mcmt m-wsrt sbang-sbrd occ glau incl arg sl slty calc
	40%	SH AA
3635-3650	60%	SH dkgy frm blk-pty sndy
	40%	SS AA
3650-3665	70%	SH AA
	30%	SS clr vfg occ fgr uncons wsrt sbrd-sbang
3665- 3680	80%	SH dkgy frm blk-pty occ sndy occ glau incl
	20%	SS AA
3680-3695	60%	SH AA
	40%	SS clr vf-fg uncons wsrt sbrd
3690-3710	60%	SS ltgy-clr vfg mcmt uncons msrt sbrd sl arg slty
	40%	SH dkgy frm blk-pty occ sndy
3710-3725	80%	SH dkgy frm blk-pty sndy occ glau incl
	20%	SS AA
3725-3740	90%	SH AA
	10%	SS ltgy vfg mcmt uncons msrt sbang-sbrd sl arg
3740-3770	100%	SH dkgy frm blk-pty sl sndy
	ABNT	BENT wh sft pty

BURTON W. HANCOCK
FEDERAL #3-4
SAMPLE DESC. CONTINUED

3770-3785	80%	SH dkgy frm blk-pty occ sl sndy
	20%	SS ltgy-clr vfg mcmt m-wsrt sband-sbrd sl slty
	ABNT	BENT wh sft pty
3785-3800	60%	SH AA
	40%	SS ltgy vfg mcmt wsrt sbrd slty sl cly fl
	TR	BENT AA
3800-3830	100%	SS clr vfg uncons m-wsrt sbrd
3830-3845	50%	SS AA
	50%	SH dkgy ltgy frm blk-pty wxy
3845-3860	80%	SH lt-mgy frm blk-pty wxy occ sndy
	20%	SS clr vfg uncons m-wsrt sbrd
3860-3890	100%	SS clr vf-fg uncons wsrt sbrd
3890-3905	100%	SS clr vf-fg uncons wsrt sbang-sbrd
3905-3920	100%	SH ltgy-mgy frm blk occ pty occ slty
3920-3935	80%	SS ltgy vfg mcmt wsrt sbang-sbrd slty sl arg
	20%	SH AA
3935-3950	80%	SH red-mar sft-frm blk slty & sndy
	20%	SS ltgrn vfg m-wsrt sbrd sl arg
3950-3965	50%	SH mby grn frm blk occ slty & sndy
	30%	SS clr frac vf-fg uncons p-msrt sband-sbrd occ ang
	20%	CHT orng yel grn hd ang
	TR	COAL blk frm-sft arg
3965-3995	100%	SS clr vf-fg occ mg uncons msrt sbrd occ sbang
3995-4030	-	No Sample, No Returns
4030-4040	80%	SH red brn ltgrn frm blk-pty
	20%	SS ltgy-clr vfg wcmt msrt sbrd
4040-4055	70%	SH red brn purp grn frm blk-pty
	30%	SS ltgy-ltgrn vfg wcmt msrt sbrd-sbang sl cly fl
4055-4070	70%	SH AA
	30%	SS ltgrn clr wh vfg wcmt m-wsrt sbang-sbrd
4070-4085	60%	SS wh-ltgy clr vf-fg wcmt m-wsrt sbang-sbrd
	40%	SH ltgy-ltgrn frm-hd blk occ pty occ sl sndy
4085-4105	70%	SS wh clr vf-fg w-mcmt m-wsrt sbang-sbrd
		SH AA
4105-4120	80%	SH red purp frm-hd bldy-pty occ slty
	20%	SS AA
4135-4165	100%	SH red grn frm-hd blk-pty occ slty
4165-4180	90%	SH red purp frm-hd blk-pty occ slty
	10%	SS clr vf-fg uncons m-wsrt sbang-sbrd
4180-4195	100%	SH AA
4195-4225	100%	SH red purp grn frm-hd blk-pty occ slty
4225-4240	100%	SH red frm-hd blk-pty occ slty
4240-4255	70%	SH AA
	30%	SS wh occ clr vfg m-wcmt m-wsrt sbang-sbrd slty
4255-4270	70%	SH red mgy purp ltgrn frm-hd blk-pty occ slty
4270-4285	80%	SH AA
	20%	SS ltgrn mgy vfg m-wcmt m-wsrt sbang-sbrd sl slty arg
4285-4300	80%	SH red mgy frm blk-pty occ slty & sndy
	20%	SS AA
4300-4315	70%	SH AA
	30%	SS wh pink lt-mgy vfg wcmt msrt sbang-sbrd occ sl arg occ slty
4315-4330	70%	SH red mgy ltgrn frm blk-pty occ slty & sndy
	30%	SS wh vfg m-wcmt wsrt sbrd
	TR	Por
4330-4345	80%	SH AA
	20%	SS wh orng-pink m-wcmt wsrt sbrd
	TR	Por

BURTON W. HANCOCK

FEDERAL #3-4

SAMPLE DESC. CONTINUED

4345-4360	70%	SH red mgy frm-hd blkyl-pty occ slty
	30%	SS wh ltgy clr vfg m-wcmt wsrt sbang-sbrd
	TR	LS mgy frm-hd blkyl crpxl arg
4360-4375	80%	SH AA
	20%	SS whclr vfg occ fg m-wcmt wsrt sbang-sbrd
	TR	LS AA
4375-4390	90%	SH red lav purp frm-hd blkyl-pty occ sl slty
	10%	SS AA
	TR	LS AA
4390-4403	80%	SH AA
	20%	SS wh clr vfg m-wcmt wsrt sbrd

BURTON W. HANCOCK
 FEDERAL #3-4
 NW/NE SECTION 3-T17S-R25E
 GRAND COUNTY, UTAH

FORMATION	FORMATION TOPS		
	SAMPLE	E-LOG	DATUM
MANCOS	SURFACE	SURFACE	
FRONTIER	3410'	3435'	+2252
DAKOTA SILT	3675'	3689'	+1998
DAKOTA	3779'	3777'	+1910
MORRISON	4015'	4024'	+1663
SALT WASH	4275'	4295'	+1392

GEOLOGIC SUMMARY
AND
ZONES OF INTEREST

The Burton W. Hancock well, Federal #3-4, was a Dakota and Morrison test in the Winter Camp Unit. The well was located in the NW/NW Section 3, T17S, R25E of Grand County, Utah. Spudded in the Mancos Formation on October 2, 1985, the well was drilled to a total depth of 4403' in the Morrison Formation on October 6, 1985. Production casing was run to total depth. Geological coverage began at 3100'.

MANCOS FM (SURFACE - 3435')

The Mancos Formation consisted of dark gray, firm, blocky to platy, occasionally silty shale. This shale also contained traces of bentonite.

The Mancos produced one gas show at 3395'-3399' of 10 units. Background gas was 2 units and connection gas was 65 to 90 units.

FRONTIER FM (3435' - 3689')

The Frontier was predominantly shale which became slightly sandy at the base. The shale was dark gray, black, firm and platy to blocky, changing from dark gray to black at 3495'. The sandstone was light brown, light to medium gray, clear, very fine grained, medium cemented, medium to well sorted, subrounded and slightly argillaceous.

One gas show occurred at 3550'-3555' of 25 units. Background gas ranged from 2-15 units and connection gas from 58-127 units.

DAKOTA SILT (3689' - 3777')

The Dakota Silt was composed of interbedded sandstone and shale. The sandstone was light gray, clear, very fine grained, medium cemented, unconsolidated, medium sorted, subrounded to subangular and slightly argillaceous. The shale was dark gray, firm, blocky to platy, silty and occasionally with glauconite inclusions.

Two gas shows were noted in the Dakota Silt in a sandstone bed at 3700'-3704' of 10 units and at 3765'-3770' of 20 units. Background gas was 2 units and connection gas was 35-46 units.

DAKOTA FM (3777' - 4024')

The Dakota Formation contained three sandstone beds with shale in-between the sand beds. The top sandstone bed at 3798'-3830' was a clear, very fine grained, unconsolidated, medium to well sorted and subrounded sandstone. During the drilling of this sandstone, the gas increased from 2 units at the top to 200 units at the base of the sandstone. Although there was no flaring during this gas show, the connection gases did flare and increased up to 1200 units. Electric logs showed this zone to have good crossover with 9-11% average porosity. This sand zone was drilled dry with no evidence of any moisture in the formation.

The second sandstone of the Dakota was noted at 3870'-3902'. This sandstone was clear, very fine to fine grained, unconsolidated, well sorted and subrounded to subangular. During the drilling of this sand interval, the gas increased to 600 units with a 15 foot continuous flare. Connection gas also

increased to 1800 units and continuing to flare on every connection until T. D. Electric logs showed this zone to have good crossover with 12%-14% average porosity. This sandstone was also drilled dry with no evidence of any moisture in the formation.

The last Dakota sandstone bed occurred at 3980'-4023'. This sand was clear, very fine to medium grained, unconsolidated, medium sorted and subrounded. There were two gas shows noted in this sand interval. At 3980' the gas increased from 480 to 640 units. The hole became damp during the drilling of this zone at 3995' and it became necessary to start drilling with air mist. Electric logs showed this sand interval to be wet with occasional traces of crossover and an average of 16% porosity.

MORRISON FM (4024' - T. D.)

The upper member of the Morrison, the Brushy Basin (4024'-4295'), was composed primarily of shale with occasional sandstone beds. The sandstone was light gray, white, light green, pink-red, very fine to fine grained, medium to well cemented, medium to well sorted, subrounded to subangular and occasionally silty and argillaceous. The shale was red, brown, purple, green, light to medium gray, firm to hard, blocky to platy and occasionally silty. There were no gas shows evident in the Brushy Basin Member. Background gas was 300-400 units and connection gas was 900-1100 units.

The lower member of the Morrison, the Salt Wash (4295'-T.D.), contained interbedded sandstone and shale. The shale was red, medium gray, purple, light green, lavender, firm to hard and blocky to platy. The sandstone was a white, light gray, clear, pink, very fine grained, medium to well cemented, well sorted and subrounded to subangular. There was also a trace of medium gray limestone in the Salt Wash. There were no hydrocarbon shows noted in the Salt Wash Member. Background gas was 300 units and connection gas 840-940 units.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, UT 84114

RECEIVED**OCT 17 1985**DIVISION OF OIL AND
GAS & MINING*REPORT OF WATER ENCOUNTERED DURING DRILLING*Well Name & Number FEDERAL NO. 3-4 (API No. 43-019-31195)Operator Burton W. Hancock Address 1799 Hamilton Ave., San Jose, CA 95125Contractor Carmack Well Service Address 2154 Hwy 6 & 50, Grand Junction, CO 81505Location NW 1/4 NW 1/4 Sec. 3 T. 17S R. 25E County GrandWater Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	None			
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

<u>Formation Tops</u>	Dakota Silt	3690
	Dakota Sand	3792
	Morrison	4024
	Salt Wash	4309
<u>Remarks</u>		

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO U-05079	
2. NAME OF OPERATOR BURTON W. HANCOCK		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1799 Hamilton Avenue, San Jose, California 95125		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1094' FNL, 1267' FWL, Section 3		8. FARM OR LEASE NAME Federal	
14. PERMIT NO. 43-019-31195		9. WELL NO. 3-4	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5682 GL, 5687 KB		10. FIELD AND POOL, OR WILDCAT Undesignated	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR ARMA NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3-T17S-R25E	
		12. COUNTY OR PARISH Grand	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Status Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Shut in--waiting on pipeline.

18. I hereby certify that the foregoing is true and correct		Consulting	
SIGNED	<i>James G. Routson</i>	TITLE	Petroleum Engineer
(This space for Federal or State office use)		DATE	12/2/85
APPROVED BY		TITLE	C
CONDITIONS OF APPROVAL, IF ANY:		DATE	

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other DEC 05 1985

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RENVR. ☐ Other DIVISION OF OIL GAS & MINING

2. NAME OF OPERATOR
BURTON W. HANCOCK

3. ADDRESS OF OPERATOR
1799 Hamilton Avenue, San Jose, California 95125

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1094' FNL, 1267' FWL, Section 3

At top prod. interval reported below
Same

At total depth
Same

14. PERMIT NO. 43-019-31195 DATE ISSUED July 29, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-05079

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

3-4

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3-T17S-R25E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

15. DATE SPUDDED 10/2/85 16. DATE T.D. REACHED 10/6/85 17. DATE COMPL. (Ready to prod.) 11/13/85 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5682 GL, 5687 KB 19. ELEV. CASINGHEAD 5684

20. TOTAL DEPTH, MD & TVD 4400' 21. PLUG, BACK T.D., MD & TVD 4217' 22. IF MULTIPLE COMPL., HOW MANY* --- 23. INTERVALS DRILLED BY --- ROTARY TOOLS 0-TD CABLE TOOLS None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Dakota Sandstone 3792 - 3902

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR-FDC-CNL, SP-DID, GR-CBL-VDL

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#, J-55	326	12 $\frac{1}{4}$ "	175 sx (to surface)	None
4 $\frac{1}{2}$ "	10.5#, J-55	4259	7-7/8"	275 sx (cement top 3130)	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					1 $\frac{1}{2}$ "	3910	None

31. PERFORATION RECORD (Interval, size and number)

3803, 3812, 3830, 3837, 3875, 3880, 3892, 3894; 8 holes total, .31" diameter jets

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3803-3894	600 gallons 15% HCl
3803-3894	Foam fractured with 29,000#
	100 mesh sand, 125,000# 16-30
	mesh sand; 113,400 gallons 75
	quality foam

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
11/13/85		Flowing					Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
11/14/85	18		→	0	943	0	---	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
210 psia	450 psia	→	---	1257	0	---		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

Dave Terrell

35. LIST OF ATTACHMENTS

None--Logs sent direct by service companies

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

James G. Routson

TITLE

Petroleum Engineer

DATE

12/2/85

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Dakota	3792	3830	Gas	Mancos	Surface	
Dakota	3870	3902	Gas	Frontier	3435	
Dakota	3980	4024	Tight, damp with water	Dakota Silt	3690	
				Dakota Sand	3792	
				Morrison	4024	
				Salt Wash	4309	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-05079	
2. NAME OF OPERATOR BURTON W. HANCOCK		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1799 Hamilton Avenue, San Jose, California 95125		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1094' FNL, 1267' FWL, Section 3		8. FARM OR LEASE NAME Federal	
14. PERMIT NO. 43-019-31195		9. WELL NO. 3-4	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5682 GL, 5687 KB		10. FIELD AND POOL, OR WILDCAT Undesignated	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW¼ NW¼ Sec. 3-T17S-R25E	
		12. COUNTY OR PARISH Grand	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Status Report	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Shut in--waiting on pipeline.

18. I hereby certify that the foregoing is true and correct

SIGNED <u>James G. Routson</u>	TITLE <u>Consulting Petroleum Engineer</u>	DATE <u>12/2/85</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE <u>C</u>	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Burton W. Hancock

3. ADDRESS OF OPERATOR
1799 Hamilton Avenue, San Jose, CA 95125

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
1094' FNL, 1267' FWL, Section 3

14. PERMIT NO.
43-019-31195

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5682 GL, 5687 KB

RECEIVED

JAN 08 1986

DIVISION OF OIL
GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.
U-05079

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
3-4

10. FIELD AND POOL, OR WILDCAT
Undesignated

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA
NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3-T17S-R25E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) Status Report

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Shut in--waiting on pipeline.

18. I hereby certify that the foregoing is true and correct

SIGNED James B. Rantson

TITLE Consulting Petroleum Engineer

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

February 27, 1986

Burton W. Hancock
1799 Hamilton Ave.
San Jose, CA 95125

Gentlemen:

Re: Winter Camp Unit Federal 3-4 Well - Sec. 3, T. 17S, R. 25E
Grand County, Utah - API 43-019-31195

A review of our records indicates that a copy of the GR-CBL-VDL log, which was run on the referenced well, as indicated on the well completion report dated December 2, 1985, has not been received. Rule 312, Oil and Gas Conservation General Rules require that copies of well logs be submitted within 90 days of completion of any well.

Please provide a copy of the required log at your earliest convenience, but not later than March 10, 1986.

Respectfully,

Norman C. Stout
Administrative Assistant

ta

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0356/13

Burton W. Hancock

1799 Hamilton Avenue
San Jose, California 95125

RECEIVED
MAR 20 1986

DIVISION OF
OIL, GAS & MINING

March 17, 1986

Mr. Norman C. Stout
Administrative Assistant
State of Utah Natural Resources
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

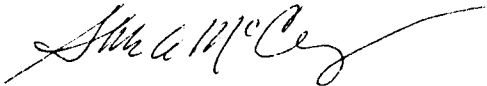
Re: Winter Camp Unit Federal No. 3-4 Well

Dear Mr. Stout:

Enclosed please find Compensated Neutron/Formation Density Log, for the referenced well in Grand County, Utah, per your request of February 27, 1986.

Please advise promptly if this is not the log you needed. Thank you and I apologize for any inconvenience this delay may have caused.

Yours very truly,



Sharon A. McCray
BURTON W. HANCOCK

ENC.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 25, 1986

Burton W. Hancock
1799 Hamilton Ave.
San Jose, California 95125

Gentlemen:

Re: Well No. Winter Camp Unit Federal #3-4 - Sec. 3, T. 17S, R. 25E
Grand County, Utah - API No. 43-019-31195

A review of our records indicates that a copy of the CBL (Cement Bond Log) which was run on the referenced well as indicated on the Well Completion Report dated December 2, 1986 has not been received.

Please provide a copy of the required log at your earliest convenience, and thank's for your response of March 17, 1986 (copy enclosed).

Respectfully,

Norman C. Stout
Administrative Assistant

ts

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0413/10

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

080612

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-05079

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

3-4

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3-T17S-R25E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Burton W. Hancock

3. ADDRESS OF OPERATOR

1799 Hamilton Avenue, San Jose, CA 95125

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

1094' FNL, 1267' FWL, Section 3

14. PERMIT NO.

43-019-31195

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682 GL, 5687 KB

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

☐
☐
☐
☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Status Report

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

☐
☐
☐
☒

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Shut in--waiting on pipeline.

RECEIVED

AUG 04 1986

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson
James G. Routson

TITLE

Consulting Petroleum
Engineer

DATE

7/31/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

LONE MOUNTAIN PRODUCTION COMPANY

P.O. Box 3394
408 Petroleum Building
Billings, Montana 59103-3394
(406) 245-5077

RECEIVED
AUG 28 1986

**DIVISION OF
OIL, GAS & MINING**

August 26, 1986

082846

43-0A-31195

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

ATTN: Norm Stout

Dear Mr. Stout:

Enclosed is a copy of the cement bond log (GR-CBL-VDL log) you recently requested of Burton W. Hancock for the Federal No. 3-4 Well located in Section 3-T17S-R25E, Grand County, Utah.

Very truly yours,

LONE MOUNTAIN PRODUCTION COMPANY



James G. Routson

JGR:bp

Enclosure

cc: Burton W. Hancock

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other Instructions
verse side)

101325

Expires August 31, 1985
5. LEASE DESIGNATION AND SERIAL NO.

U-05079

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL ☐ GAS ☒ OTHER ☐

2. NAME OF OPERATOR

Burton W. Hancock

3. ADDRESS OF OPERATOR

1799 Hamilton Avenue, San Jose, CA 95125

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)

At surface

1094' FNL, 1267' FWL, Section 3

14. PERMIT NO.

43-019-31195

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

5682 GL, 5687 KB

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

3-4

10. FIELD AND POOL, OR WILDCAT

Bar-X

11. SEC., T., R., W., OR R.R. AND
SURVEY OR AREA

NW 1/4 NW 1/4 Sec. 3-T17S-R25E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FULL OR ALTER CASING

FRACURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other) Notice of First Delivery

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)*

First delivered to Mesa Pipeline 10/9/86 at 11:50 A.M. Verbal notification
phoned to Greg Noble, BLM, Moab District Office at 8:39 A.M. on 10/10/86.

RECEIVED
OCT 14 1986

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James W. Rantson

TITLE

Consulting
Petroleum Engineer

DATE

10/10/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

1-5
r 1983)
y 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau for 1001-01-1
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-05079

PGW

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

041603

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

3-4

10. FIELD AND POOL, OR WILDCAT

Bar-X

11. SEC., T., R., N., OR BLK. AND
SURVEY OR AREA

NW¼NW¼ Sec. 3-T17S-R25E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐
2. NAME OF OPERATOR
Lone Mountain Production Company
3. ADDRESS OF OPERATOR
408 Petroleum Building, P.O. Box 3394, Billings, Montana 59103
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1094' FNL, 1267' FWL, Section 3

14. PERMIT NO.

43-019-31195

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5682' GL, 5687' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANE

Change of Operator

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Effective immediately, Lone Mountain Production Company has become the Operator of this well.

Designation of Successor Operator forms are attached.

RECEIVED
APR 08 1987

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

James R. Rouben

TITLE Petroleum Engineer

DATE February 25, 1987

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

03/17/1999

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS

CAROLYN GEORGE
LONE MTN PRODUCTION CO
PO BOX 3394
BILLINGS, MT 59103-3394UTAH ACCOUNT NUMBER: N7210REPORT PERIOD (MONTH/YEAR): 2 / 1999RECEIVED
APR 7 1999
DIV. OF OIL, GAS & MININGAMENDED REPORT ☐ (Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
UTAH STATE #1			DKTA	S	GW	0			
4301930758	400	16S 25E 32							
UTAH STATE #2			MRSN	P	GW	28		1386	
4301930759	405	16S 25E 32							
BAR X #3			DK-MR	P	GW	28		2034	
4301915022	455	17S 25E 12							
BAR X 6			DK-MR	P	GW	28		2399	
4301915025	455	17S 25E 11							
CRITTENDEN 1			DK-MR	P	GW	28		3776	
4301915027	455	17S 25E 12							
BAR X #8			DK-MR	P	GW	28		2452	
4301930494	455	17S 25E 11							
BAR X UNIT #13			MRSN	P	GW	28		2669	
4301930598	455	17S 26E 07							
FEDERAL 17			DK-MR	P	GW	28		8033	
4301931306	455	17S 25E 11							
FEDERAL NO. 20			DK-MR	P	GW	28		1127	
4301931337	455	17S 25E 12							
BAR-X FEDERAL 23			DK-MR	P	GW	28		20153	
4301931347	455	17S 25E 01							
FEDERAL 21			DK-MR	P	GW	28		3571	
4301931352	455	17S 25E 12							
WINTER CAMP UNIT FEDERAL 3-4			DKTA	P	GW	28		2042	
4301931195	4691	17S 25E 03							
WESTBIT 2			WSTC	P	GW	28		2563	
4301915048	5220	16S 25E 09							

TOTALS

52205

COMMENTS : please change entity #4691 to say Federal 3-4

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 4/1/99Name and Signature: Carolyn George Carolyn GeorgeTelephone Number: (406) 245-5077